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One for Iceland

THIS 37ft. stern trawler *Reykjaborg* was recently fitted out for Icelandic owners at the Bouter's yard, Cowes, Isle of Wight. She is based on a Tyle-Watson GRP hull and is powered by a C-Power 180 hp engine. A hydraulic winch by North Winches is also fitted. The new boat was shipped to Iceland from Felixstowe.

Mackerel plant

From page one

worth of whole crabs in Sweden, Canada, Spain and France.

Mr. Dugmore said that his company had sold some 280,000 worth of crabs abroad last year from the former premises, which have now been replaced by the new 10,000 sq. ft. factory provided by the Harbour Improvement Co.

Already, 60 girls are working at the factory and the number is expected to rise to 80 or 100 when the mackerel season begins.

Mackerel will be graded, headed and gutted, then supplied to the restaurants and Swedish markets. The surplus after these two frozen packs. The company would be able to store up to 100 tons of frozen mackerel.

"We hope to get mackerel from local boats," Mr. Dugmore continued. "The mackerel caught in the mackerel fishery is depressed by the variable belt mackerel caused by the industrial fishing which is estimated, say 1,000 tons a day going to the meal plants this season."

"What we are doing is putting in for a special licence for processing of mackerel up to the retail level," he said. "Mr. Dugmore is confident that crab stocks can withstand the concentrated fishery in which his company is involved. He said a Ministry survey showed stocks could sustain fishing at this level."

"We have affected the price of crab by having a demand overseas, and prices up for fisherman. We have also wiped out the need to be the traditional plus of crab in October and November."

Mr. Dugmore said the factory was probably the largest in England.

He added that he could see no way in which the mackerel fishery could be expanded in the same way as the mackerel, which has been a terrible and pure mackerel from Scotland and the east."

"The capital investment in crab is so high and the physical level is so great that you can't mechanise it," he said.

He complimented the Government on its support for the British fishermen who are becoming very tired and frustrated by the actions of the third countries in disregarding all directives issued by the EEC.

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July 1, 1977

No. 3834

Est. 1913

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MIRRELS BLACKSTONE DIESELS

SILKIN: NO SURRENDER

IT NOBODY here or abroad get the impression that because we are reasonable we are prepared to surrender the needs and rights of fishermen? This warning — mainly for the EEC — was made by the Minister of Agriculture and Fisheries, John Silkin, last week. Speaking in a House of Commons debate on fisheries called by the Opposition, Mr. Silkin said that renegotiation of the Common Fisheries Policy would be long and difficult. But while we understand the problems of others, they must be prepared to understand ours.

If they do not the result will be to harden, not soften, resolve," he stated.

Summing up the urgency of the situation, Mr. Silkin said that there are changes in the EEC now, by 1982 there will be free fishing up to the

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GUNDELACH: NO 50-MILES

EEC FISHERIES Commissioner Finn Gundelach arrived in Aberdeen last week with the same message he had brought to Hull six weeks earlier: no 50-mile exclusive zone. Considering that Mr. Gundelach had been invited to Scotland to be told how important the 50-mile issue is to fishermen, he was received in an orderly and dignified way.

Fishermen and their families representing ports from Eyemouth to Shetland converged on Aberdeen. Over 700 of them joined in the march through Aberdeen to the conference hall.

The procession, which walked the one-and-a-half miles from the harbour to the Beach Ballroom, was headed by a piper and a group of women wearing the traditional fisherfolk's costume of Fife.

Speaking in the Beach Ballroom before Mr. Gundelach returned from a visit to Peterhead and Fraserburgh, Skipper Willie Hey,

chairman of the Inshore White Fish Producers' Association, said: "I have no shadow of doubt that our Government will back us up for a 50-mile limit. The blockade helped to put our case across to them, but now we have to convince the EEC."

Alick Buchanan-Smith (Con MP, N. Angus and Mearns) said the EEC admits that there is a need for conservation but, if this is to be achieved, the responsibility for it must be given to the coastal states around which most of the fishing is carried out.

"We joined the EEC in order to join a group of nations which can work together, but the community has failed if the needs of member states cannot be appreciated by the others," added Mr. Buchanan-Smith.

Later, Mr. Gundelach put forward his reasons for rejecting the UK's request for a 50-mile limit.

He said that the EEC had been able to cut down over-fishing by non-EEC countries in Community waters. This could not have been done by individual states.

Mr. Gundelach went on to say that in a relationship between countries fishing cannot be seen in isolation from all other economic activities. We have to stick together. But some areas within the EEC — such as Scotland — depend on fishing and this livelihood must not be taken away.

"I appreciate this, and

Continued on page 2



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Insurance chief set to retire

REAR ADMIRAL J. A. Ievers C.B.E., OBE, managing director of UK Trawlers Mutual Insurance Co. Ltd. since 1970, is retiring at the end of the year.

He went to Dartmouth as a cadet in the early 20s and left the Royal Navy in 1964. He was deputy controller of aircraft research and development in the Ministry of Aviation before he took up the first of his two marine insurance posts on North Humberside 14 years ago.

"I shall be sorry to leave because I have enjoyed it very much as it has been a most varied job, but the time has come," he said.

The U.K. Trawlers Mutual Insurance Co. was the outcome of the Fleetwood, Grimsby, Hull and Lincolnshire mutuals being merged into one company.

On January 1, 1971, it took over the marine insurance of 287 vessels with a capital value of £47m. The highest individual vessel value was over £1m. In 1976 the figures rose to £106m and £3m, respectively.

This is a far cry from 1888 when the 100ft. steam trawler *Irrawaddy* was one of the most modern fishing vessels at Hull. Her value: £3,600.

PETERHEAD Skipper Andrew Buchan of the *Fountain* was airlifted to an Aberdeen hospital after being taken ill at sea. He was later reported to be comfortable.

WFA LIVING OFF OVERSEAS WORK

THE WHITE Fish Authority is in profit to the tune of over £300,000 on its last year's work. This is mainly the result of consultancy work abroad which provided more revenue than the levy from the British fishing industry.

Presenting the WFA's annual report in London last week, the chairman, Mr. C. I. Meek, said: "Our finances have never been better."

Effective because competitive national interests always bid up the permissible catches to unsafe levels.

"How are things better when the Council of Ministers met, as they did last month, with all of us hoping to hear of constructive steps towards the policy's revision; and all that was achieved was a miserable month's extension of a ban on herring fishing in the North Sea, which should in the view of my colleague, Dr. Deen, of the scientists, of the herring fishermen themselves, be extended at the very least to the year's end? This is not one whit better than we found ourselves under the North East Atlantic Fisheries Commission."

Mr. Meek said he spoke as a convinced European, but added that there are some questions to which a good European deserves answers.

"Why should the fisheries alone — not oil, not wheat, not wine — be treated in this supranational way? After all, it is not in law an EEC Extended Economic Zone of which we are speaking, but the zones of the individual sovereign coastal states."

"Again, it is competent for the Commission to discriminate amongst Member States by allocating quotas amongst them from what they choose to regard as the neutral pool? And is it not an underlying principle of the

"The North East Atlantic Fisheries Commission was in-

Export

The Authority had fought its way out of the dangerous situation of living on a fixed income by getting into export consultancy services. This way we have managed to retain our staff for the British industry's benefit, said Mr. Meek.

Turning to the wider ranging problems facing the industry, Mr. Meek said that his branding of the doctrine of the Common Fisheries Policy last year as "repugnant" had been justified to the bill. It is founded on a confidence trick.

While the Law of the Sea Conference is aiming to put control of fisheries inside 200 miles upon the coastal state, where are we, asked Mr. Meek?

Treaty of Rome that regions which enjoy a comparative advantage in the production of particular commodities should be encouraged to exploit this advantage to the benefit of the Community, and should this not apply within each country's own Extended Economic Zone?

"I hope I have made clear,

yet again, that I believe the common fisheries policy to be founded on a confidence trick and to be inimical, through and through, to legitimate British and Irish interests."

Mr. Meek said recent experience confirms that only the coastal state can at present limit fishing effort and administer quotas effectively.

Government end yet other countries can break the regulations without penalty, says Mr. McQuarrie.

Skippers will be interviewed when they come ashore and the situation will be reported to Mr. Teddy Taylor, shadow secretary of State for Scotland.

It is hoped the EEC will warn the offending nations.

Mr. McQuarrie added: "The Government must act at once and show its support for the British fishermen who are becoming very tired and frustrated by the actions of the third countries in disregarding all directives issued by the EEC."

The herring catches are being taken to the Danneb port of Hirtshals.

It is a ridiculous situation, that our fishermen have accepted and operated the closure imposed by H.M.

Despite the North Sea fishing ban Danneb and Ferose fleets are continuing to fish. They are working in the Skagerrak and Kattegat areas, which are closed to British fishermen.

Scottish fishermen have become so incensed that their case has been taken up by Mr. Albert McQuarrie, chairman of the Scottish Conservative Party's Consultative Fisheries Committee.

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Beating the herring ban

DESPITE the North Sea fishing ban Danneb and Ferose fleets are continuing to fish. They are working in the Skagerrak and Kattegat areas, which are closed to British fishermen.

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Herring ban

TOTAL ban on the North Sea herring fishing been imposed by Britain. This follows the breakdown of EEC talks on conservation in Edinburgh on Monday.

The Tory party was expected to launch an attack on the Government this week, accusing it of weakening on the limits issue.

As a result of the Luxembourg talks, Scottish herring quotas for the west coast have been drastically reduced. Total allowable catch has been set at 53,000 tons, with a Scottish share of 39,000 tons. This compares with 138,000 tons and 70,000 tons last year.

The Scots have already taken 10,200 tons of herring from the west coast, which will be deducted from the total allowable catch.

Continued on page 2

MARCHING AGAIN FOR 50-MILES

Silkin

Continued from page 1
not aseed, Mr. Silkin warned, we might have to exclude Faroeese vessels from our waters.

While talks are still going on with Iceland, Mr. Silkin said that he did not want to raise any false hopes.

Quotas in themselves were not enough said shadow spokesman on fisheries, John Payton. Some breeding grounds must be closed permanently and certain methods of fishing restricted.

Mr. Payton also called on the Community to allow individual countries to negotiate on its behalf with third countries.

There were also criticisms of the level of fisheries protection from Mr. Payton. Because of the government's defence policy there is a lack of muscle to enforce fisheries policy, he said.

Gundelach

Continued from page 1

therefore, a solution in your interests must be found," added Mr. Gundelach.

Refuting the claim for a 60-mile zone, Mr. Gundelach said this is not the right answer. "We must find another way of doing it; a tight and well controlled quota system is the answer, with special consideration being given to those areas which



Left: banners from the part of Eyemouth... with others from Peterhead, Whitehill, Loochinvar, Lossiemouth and Pittenwee... oarried during the Aberdeen march last... made the point to EEC Fisheries Commission... Finn Gundelach, that Scotland is united in... for a 60-mile limit.
Above: Mr. Gundelach (left) addresses... inside the Beach Ballroom. Skipper Willie... chairman of the Inshore White Fish... Association, put the Scottish fishermen's... which faces a hard battle in the event... with the EEC.

depend on fishing for their livelihood."

Mr. Gundelach admitted that earlier quota systems did not wholly succeed but, he said, that working a system within the EEC had not yet been tried.

On Peterhead market (left to right) are Capt. Oliver Signorini, harbour master; Jimmy Lovis, Scottish Fishermen's Organisation; Mr. Gundelach; John D. Buchanan, Harbour Trustee; Harry Sim, Gremplan Regional Council; Gilbert Buchanan, Scottish Fishermen's Federation; and Skipper William N. Buchanan, White Fish Producers' Association.



MACKEREL: 'Gavina' to join the rush

FLEETWOOD'S big stern trawlers Gavina and Fydeco have been confirmed as starters in the next south-west mackerel season.

The ships have been two of the most successful to work out of Fleetwood but, as they are now only able to work middle-water grounds, mackerel fishing has been more or less forced on them.

Fleetwood ships began fishing the area last year when the J. Merr stern trawler Norina, and Wye Trawlers' 80ft. Benuvia, worked from Cornish ports.

Dog flood

VISITING Inshore liners and trawlers brought the best dogfish landings of the season into Grimsby last week.

Nine vessels landed 700 kts last Friday and there were enormous quantities of overland dogs. The market was flooded and prices went down.

By last weekend, as lorry load after lorry load poured into the port, quayside prices had slumped to under £10 a kit.

Slaight's Gatlach Millie got the best deal of the week at over £22.22 per kit from 59 kts on the Monday market.

French engines in race hat-trick

BAUDOUIN-powered Brixham boats swept to victory in all three main classes of the Torbay trawler race last Saturday. The race was a repeat of last year when home boats beat off a big outside challenge.

Over 70 boats started the race, including two entries from France.

Two Brixham skippers will be flying off to get a sun-tan as a result of their victories.

Brian Trust in Boy Jamie who headed Group I, and Tom Paul the Group II

winner in J.B., won holidays in Spain presented by Pontin's Holiday Camps.

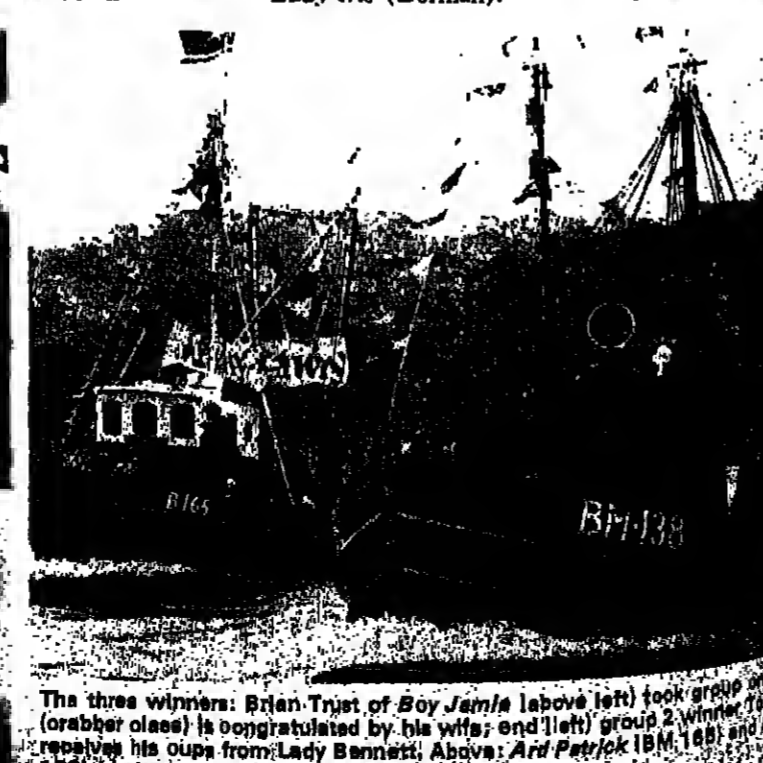
There was a big smile on the face of Rea Burn, the Plymouth-based agent for the French-made Baudouin engines. Boy Jamie, fitted with a Baudouin 215hp engine, overcame a 28-minute handicap to win. J.B. made

the best of baling first away in his group to record a win powered by a Baudouin 180hp engine.

Completing the Baudouin hat-trick was Terry Ekers who took the Fishing News trophy in the crabber class for the second year running. His boat Silver Spray has a 120 hp Baudouin.

Second and third positions in Group I were taken by Aurora (Kilwin) and Florentine (Gedern).

There was a popular second place in Group II for Bob Kimble in Sea Wife (Mercedes-Benz). Bob's wife, Margaret, is the trawler race secretary. In third place was Lady Iris (Dorman).



The three winners: Brian Trust of Boy Jamie (above left) took group I (crabber class) is congratulated by his wife; and (left) group 2 winner Tom Paul (above right) is congratulated by his wife; and (left) group 3 winner Terry Ekers (above left) is congratulated by his wife. Above: Airl Patrick (BM 148) and Lady Iris (138) battle it out.

No - licence skippers fined £70,000

PENALTIES totalling almost £70,000 were imposed on Tuesday at Stornoway Sheriff Court when two Spanish trawler skippers pleaded guilty to illegal fishing inside the 200-mile limit.

They were arrested by the HMS Jura on Tuesday about 40 miles off Hockliff and about 20 miles inside the 200-mile limit. They admitted fishing without a licence and fishing without a licence.

The skippers were Brian

Manuel Santos (52) of Piexemar, and Jose Meritas Marino (41) of Pescamar, both from Corunna.

The court was told that Piexemar had on board fish to the value of £2,325 and gear worth £8,300. Pescamar had a catch valued at £2,268 and gear worth £8,400.

An agent, Frank Fletcher, said that the legislation kept changing very quickly and, in fact, had even changed since

..and £20,000

Two Spanish trawler skippers were each fined £10,000 by Stornoway magistrates at Friday. Both had pleaded guilty to fishing within the 200-mile limit without a licence.

Julian Collins, prosecuting for the Ministry of Agriculture, and Food said he hoped the case would be enough to deter a second Spanish Ar-

Julian Marquez Zumaran, and Angel Uccola (40), were pair-fishing 115 miles off the Scillies on June 21 when their trawlers were seized by men from the navy fisheries protection

legislation on the 200-mile limit had only been effective since the beginning of the month. There had been an enormous amount of new laws on international fishing rights, and it was difficult to keep up-to-date.

The fines were paid on Monday.

right to sell the fishing gear, or the boats, if the fines were not settled.

The presiding magistrate, Cyril Penrose, said the offence was viewed very seriously. The 200-mile limit is for the benefit of the international fishing industry and the conservation of stocks.

David Bishop, for the Spanish trawlerman, said the incident arose from a misunderstanding. They had applied for a licence to fish in British waters and were expecting it to come through "any day."

He said: "They thought another Spanish boat might have brought it out to them on the day they were arrested."

Mr. Bishop added that legislation on the 200-mile limit had only been effective since the beginning of the month. There had been an enormous amount of new laws on international fishing rights, and it was difficult to keep up-to-date.

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AM McKNIGHT, skipper of the Kilkeel, Northern Ireland, boat Fidelity, has received the Queen's Silver Jubilee Medal. A skipper for 20 years, Mr. McKnight has been congratulated by the North Irish Sea Fish Producers' Organisation.

On behalf of the 13 Devon fishermen he welcomed to Plymouth Coun. George Sewell, who took their own prizes were presented by the old fish quay by Lady Bennett.

20-MILE limit would be little meaning without internationally-agreed fish stock management, the Commission inquiry committee was told on Wednesday by Basil Fish, Director of Fisheries (Scotland). A 50-mile limit has no biological value, he said.

STRONG warning about the need for a 200-mile limit has been given by Lord Lee, director of the Lowestoft Fisheries Authority. He said catches had been half a million in 1975 and 1976, but in contrast with the recommendation of 100,000 tonnes.

LANDA (Skipper Harry Brown) just failed to join a Grimsby seiner. He was out for 22 kts, but after a 16-day voyage, he completed last week.

in BRIEF

THE BIG French stern trawler Chevalier D'Assas stormed in and out of Grimsby in double-quick time last week to land a late Faroeese bluing catch, topped up with red herring. Her 1,336 kts made £34,252 through the Boston Deep Sea agency.

GRIMSBY fish salesmen, vessel agents and owners, Sam Chepmen & Sons Ltd., has bought the anchor-seiner Susan Joy (GY 355). She has arrived in Grimsby from Denmark and earned £1,528 "wetting the net" on the way over.

THE Lowestoft trawler Bermuda sent out a Mayday distress call last week after her pumps failed 78 miles east of the Humber. Among those to alert the authorities were short-wave radio ham, Merwyn Collins of Wolverhampton.

THE IRISH Department of Fisheries has approved the first fish farm in County Cork. It will be located on the banks of the River Shournash at Gort, Vicoarstown, in Mid-County Cork. The farm will be operational within a few months; the hatchery next year.

ZEBRA TOPS HER RECORD

A NEW middle water port grossing record was set at Grimsby last week by Rose Zebra.

Acs middle water skipper, Ronnie Reeves (31), brought BUT's 130-footer home to claim a new high of £34,192 from 1,122 kts after a 16-day Faroeese/Westerly trip on June 23.

With a new middle water daily average record of £2,279 thrown in for good measure, Zebra beat her own record set up on March 1 when Skipper 'Paddy' McCarthy chalked up £32,875 from 1,385 kts of Faroeese/Westerly trip on June 23.

Short

Earlier, BUT's Rose Leopard (Skipper Jimmy Brown) very nearly snatched the record. She fell just short when Skipper 'Paddy' McCarthy chalked up £32,875 from 1,385 kts of Faroeese/Westerly trip on June 23, again mostly codstuffs and haddock.



Barnetts of Frying Pan Alley Ltd

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JULY 1977
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The sad contents of this little note will quite probably hurt and upset you and might even cause you, in your distress, to up and flog your massive shareholding in Associated Fisheries ... which the Lord forbid!

(And anyway you'd be damned sorry afterwards when the shares continued to rise in value. Nobody likes to lose out on a pleasant little profit or divi., particularly when you don't have to raise even the smallest finger to watch 'am go jumping up the charts; 'praps finishing in the top ten!)

The point of my message to you is this: for some time now you've been writing and phoning (plus one cable from my daughter in Sweden) to suggest - with, I assure you, no prompting from me - that it was high time the Chairman invited me to join the Board of Directors ... an injection of spirited youth would surely be a good - perhaps splendid - thing. That thought certainly seemed to the fore in your active, sensible minds, and in your messages to me.

Well, come the morning of the 1977 Annual General Meeting and on my nicely polished orange box I found a warm, personal message from you-know-who, begging me to attend. Actually - and here I must be bravely and painfully honest - it merely said, I quote, "I suppose you'd better come along too, Jo. Use public transport or walk". But this rather brusque, business-like note only served to hide the real warmth of his affection and admiration for me. (And if you don't believe me, stop whatever disgusting thing you're doing, get up, straighten the bed, and go stand in front of the 9.10 from King's X to Hull. See if I care!)

So, a quick dip in the patty cash box and I was soon being taxied to the venue of the meeting, a well-known hotel and watering hole famed for its grub and its proximity to old Mother Thames.

I was splendidly dressed in a quite daring little charcoal number with pearl buttons, an inconspicuous made-to-measure silk shirt in a subtle shade of champagne, with a rich Olorosa hand-knitted cravat. A lobster-coralled tie-pin and cuff-links and deep blue python skin shoes set off what could have been an entrancing front page cover from the Tailor and Cutter. Circa 1504.

By taking my rightful place in the front row next to our bank manager, I quite upset a few old dears with ear trumpets, varicose veins and varicoloured hair-pieces who, I presumed, were either the proud mothers or devoted aunts of the present members of the Board ... little did they know or guess, poor old things, that there would be a new look to 1978; a fresh, fragrant wind of change would blow through this historical room, ushering in the youthful spirit of the fast approaching 21st century ... the man of your choice was about to take over. Your lovable new young broom would soon be sweeping almighty clean.

After the secretary, quite a pleasant chap really, rose to read the formal notice convening the Annual General Meeting, we had the auditors' report followed by a little chat from the Chairman who, unsuspectingly, seemed very much at ease and certain of himself ... little did he know!

It was extremely warm in the room and I rested my eyes for a minute while shareholders asked a few questions and thanked the directors for their recommendation of a divi. When I opened them again, I heard directors and auditors being re-elected wholesale and then, "Thank you very much, ladies and gentlemen. That concludes the formal business of the Annual General Meeting, but if you care to join the Board for a drink, we should be most pleased". And guess who was ordered to serve the drinks? He, of course! Darned cheek!

("Why don't you pack it in, Son, and go out and sell some fish?" Mum)

M. Barnett of Frying Pan Alley

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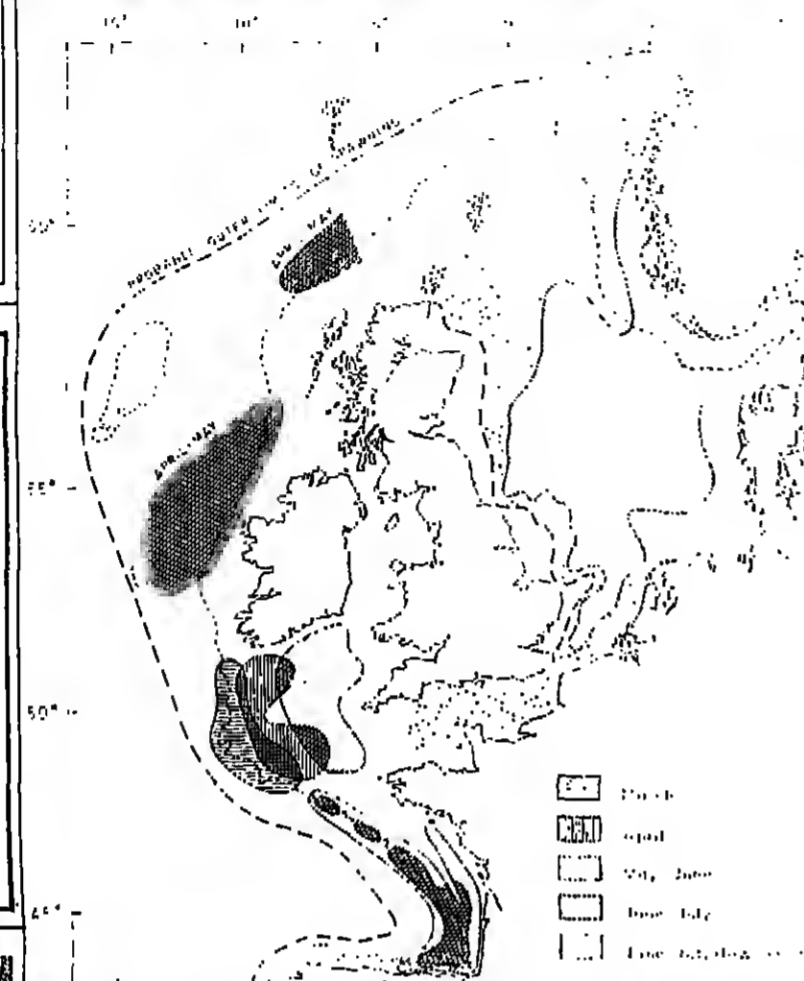


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WESTERN MAKEREL

-we're only nibbling at



Mackerel spawning grounds around the British Isles. The western spawning grounds in the Bay of Biscay, Celtic Sea and the west of Ireland are covered in the present series of surveys by the Lowestoft Laboratory's research ship *Cirolana*.

THE UK mackerel catch from west grounds has almost trebled in two years — but it is still only 10% of the international catch from the stock. Cornish stock is just a part of the international stock. From 1972, when landings were 5,000 tons, they rose in 1974 and, by last year, had nearly trebled to 15,000 tons.

The size of the international spawning grounds from the western English Channel and Celtic Sea is now forcing British scientists to expand their research and extend it beyond Cornwall.

Between March and July the research ship *Cirolana* is making five cruises to the Bay of Biscay, Celtic Sea and the west of Ireland. These cruises cover the main spawning grounds (see chart).

To be able to plan and implement a management policy for the entire stock, it is necessary to know how large it is. This is why the Lowestoft Laboratory says it is making its "biggest-ever" attempt at manpower and resources into its mackerel research programme during 1977.

Earlier research work on mackerel with acoustic surveys has given a stock size estimate for the south-west of one million tons.

In a hardy note to the mackerel research programme, the Lowestoft Laboratory says that the large shoals found in Cornish waters over the past 10 to 12

years are probably reaching their peak, and on to late June or even early July. As the season progresses spawning fish leave the southern spawning grounds first and begin their summer feeding migrations. In the Celtic Sea the centre of spawning will gradually move seaward and continue in the English Channel, at a lower intensity than in the Celtic Sea, until July or August.

When the fish have finished spawning in the Celtic Sea and west of Ireland their feeding migrations will take them north, along the west coast of Britain to the Minch, Shetland and even Norway, before they return to their overwintering grounds in the autumn.

By the time this series of cruises is completed in July, the Laboratory says it hopes to have gained not only a better knowledge and understanding of the early life-history of the mackerel, but also sufficient data with which to estimate the total size of the western mackerel stock.

By counting the number of eggs in each sample, estimations are able to be made of the total number of eggs released during the spawning season. Knowing how many eggs are released by each mature female mackerel enables scientists to estimate the total size of the spawning stock.

The Cornish winter fishery depends on part of this stock as do the Irish spring and autumn fisheries and the major Norwegian summer fishery at Shetland. This stock size estimate will be used in conjunction with the detailed catch and fishing effort information, which is collected daily from the ports, to form the basis for planning the rational exploitation of the stock.

Proper management of this resource which is so valuable to the south-west, is the ultimate aim of this intensive research programme.

Trawler tops £1/2m

THE stern fisher *Clarkwood* is the first trawler at Aberdeen to top £500,000 for a year's work.

She landed 1,462 cwt. this week after 13 days at Feroces and made £30,000. This brought her gross earnings to £513,000.

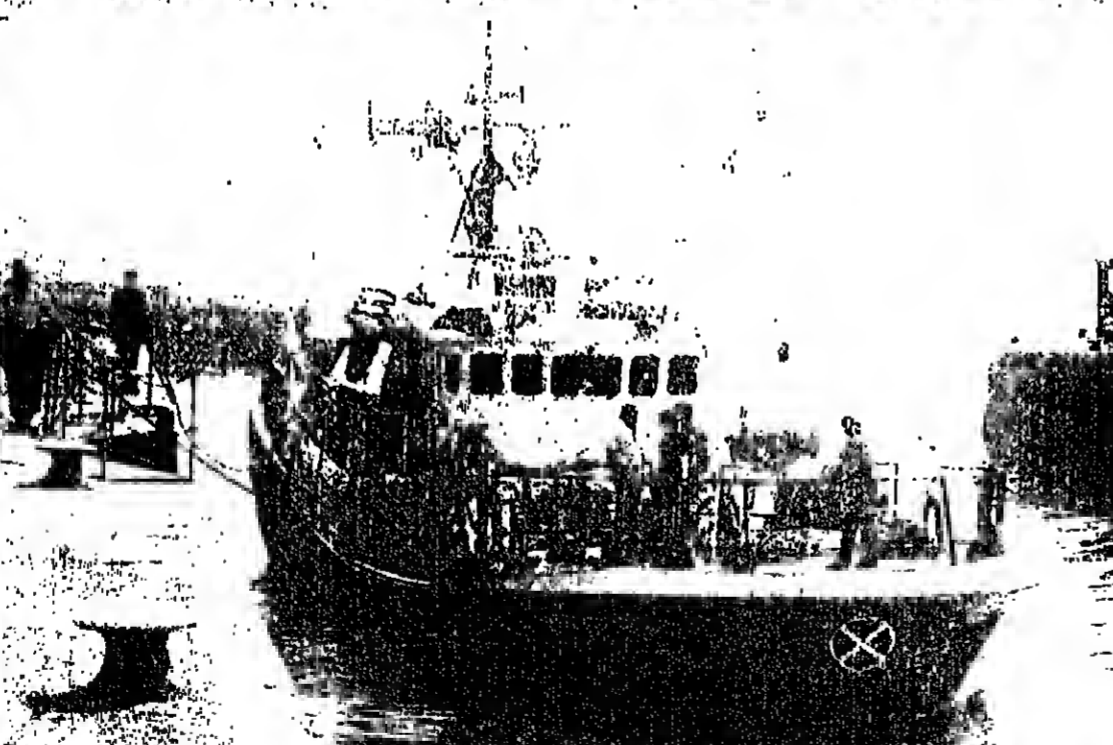
Skipper Stuart Thomann came ashore with the trawler still to make another trip before her first year in service is completed. Skipper Terry Taylor takes over for this trip.

Charles Small, managing director of the owners, John Wood Group, said that however impressive her earnings she is faced with extremely high operating costs which "greatly diminish the profitability of the ship."

"Don't forget, *Clarkwood* is a very sophisticated vessel and her original cost was very high. Fuel for example, costs £87 a ton — and she uses 34 tons a day.

"Nevertheless, this must not detract from the fact that the skipper and crew have done extremely well."

Purser's 133 tons



THE Scottish purse seiner *Sedulous* (above) headed into Hull last Friday with 133 tons of sprate aboard. And she followed up on Monday with a similar catch.

Her massive hauls were, however, topped in one landing by Britain's largest purse seiner, the 148 ft. *Satti Maria*, when she landed 350 tons also on Monday. Huge quantities of sprate caught by Scottish purse seiners in the North Sea have been reaching the Hull Fish Meal and Oil Co's dock-side factory this past week.

Mr. M. Anderson, the company's managing director, told *Fishing News*: "This is completely out of the blue. This is traditionally a very quiet time for our factory — and it is the time when we undertake the annual overhaul of our plant."

"Unfortunately, with maintenance work being carried

NCLUES OSIOUX

NO reason for the loss in March of the first purpose trawler *Sioux* was put forward last week into the shipper.

Shortly after there was a "thud" on the canopy roof and the liferaft lights went out. The men then transferred to the second liferaft before they realised it had probably been their skipper trying to join them in the liferaft which had caused the lights to fail.

They immediately began to search. Although they heard him shouting some way off in the sea and blowing a whistle, they were unable to reach him.

His body was found after an air-sea search. Deckhand Clifford Baker of Lowestoft confirmed Mr. Edwards' account of the tragedy, as did engineer Graham Welford.

Grimsby District Coroner, Peter Gledwin, said no real explanation was available as to why *Sioux* foundered. He said that in the very best traditions of the fishing industry, the crew was safe before he left the vessel.

Mr. Gledwin recorded a verdict of accidental death on Skipper How, who is survived by a widow and three children.

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Application forms for the post are obtainable from the Technical Director, White Fish Authority, Industrial Development Unit, St. Andrew's Dock, Hull HU3 4QE, to whom they should be returned by 7th July 1977.

Further details of the huge benefits, and of the operation, will be made available to those applicants whose experience is considered suitable.

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Continued from Page 11

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Show boats

From page 9
cost £1,850 as seen; a heavy-duty version is available for £2,185. Other lengths in the range include a 25 ft. hull for £1,185 and a 37-footer for £3,900.

Around one hull a week is being produced by Hull Steel Craft which has orders for 15 craft in hand.

Orders for Hull Steel Craft included a 30-footer in fish the Humber and a 37-footer for North Wales.

MacAlister-Carrall was offering a ferro-cement Macmont 24 for around the £10,000 mark if fitted with a 50 hp diesel. The Macmont 24 on show, powered by a 74 hp Ford Dolphin, will cost around £11,500 fitted out.

Strong interest in ferro-cement craft came from fishermen based around The Wash who have to contend with boats drying out between tides.

The Macmont 24 had been fitted out by the Dixon Kerly



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yard in Essex which had just been taken over to offer a fitting unit service for the hulls made at New Milton, Hants.

A 16 ft. x 6 ft. 8 in. x 2 ft. Salcomha steel dory was brought up from Devon to be on display. The simple, but strong, dory is one of a range manufactured by E.S.J. Engineering, the latest of which is a 24-footer.

The dory on display had around 21 days to build using 1/8 in. mild steel and the bottom is corrugated for strength.

"The 'yachties' fishing boat I've ever seen" was how one 'thames fisherman' described the Fairways Catcher 25. The Humber-based firm brought this boat built for perimeters to show fishermen the high quality of their work.

The firm's attack on their shore boat market is most likely to come with 32 and 38 ft. long GRP hulls built in large numbers and at competitive prices.



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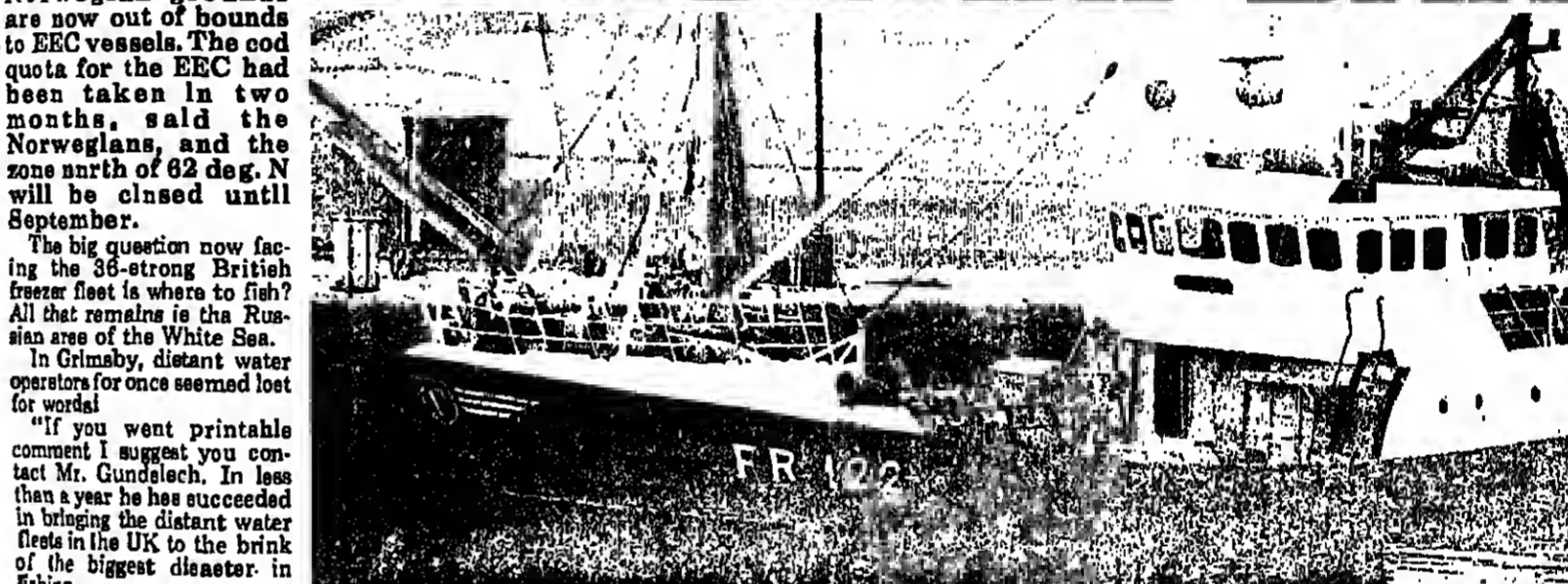
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Hitting the sprats

SCOTTISH purse seiners including *Comrade* (below) were crowding into Hull last week with sprats for the meal plant. Story and pictures page five.

FREEZERS STRANDED BY NORWAY BAN



PUNCH-DRUNK and waiting for the next blow. This was the state of the owners of 18 distant water trawlers on Humber-side after being faced with the news that the Norwegian grounds are now out of bounds to EEC vessels. The cod quota for the EEC had been taken in two months, said the Norwegians, and the zone north of 62 deg. N will be closed until September.

The big question now facing the 36-strong British freezer fleet is where to fish? All that remains is the Russian area of the White Sea.

In Grimsby, distant water operators for once seemed lost for words.

"If you want printable comment I suggest you contact Mr. Gundlach. In less than a year he has succeeded in bringing the distant water fleets in the UK to the brink of the biggest disaster in fishing."

"Even Hitler and the evils of two world wars never achieved anything so diabolical," one company spokesman told *Fishing News*.

There seemed to be an atmosphere of almost total disbelief, although skipper confirmed that companies had already issued instructions to vessels in the Norwegian sector of the White Sea that they must pull out. Now, only the Russian sector remained open, plus a certain amount of fishing up to Spitzbergen.

As Grimsby maintained its angry alliance it rapidly became clear that future distant water fishing would hinge very largely upon the Russians and their attitude to a British presence in her territorial waters.

In an angry letter sent to the Minister of Agriculture and Fisheries, John Silkin, the British Fishing Federation pointed out that Britain is having to pay heavily for the lack of restraint by others. And Norway will probably only re-open her zone for a short period after September 1.

This is because the immediate closure of the zone north of 62 deg. N will almost certainly result in a diversion of effort to the zone around the island and Spitzbergen, where Norway has announced a "fisheries protection zone" and a "standstill" on fishing effort.

The "standstill" is not observed, Norway will carry out her threat to correspondingly reduce the EEC quotas in her own 200-mile limit in the last quarter of the year, says the BFF.

The federation has told the British that the closure is made all the more galling because the UK industry was

FINES CRUSH DUTCH REVOLT

SKIPPER Nicholas De Niet of the Dutch trawler *Maria* has appealed against a £25,000 fine imposed on him at Aberdeen Sheriff Court on Monday. His solicitor said that he has appealed against the sentence by way of a stated case to the High Court.

Skipper De Niet admitted contravening the new British North Sea herring ban by fishing 50 miles off Aberdeen on the day the order came into operation. His gear was confiscated by the court along with the catch. The sheriff allowed the skipper to buy back his gear.

Another Dutch skipper was in court at Lerwick on Wednesday for the same offence and he was expected to get a happy fine.

Jan Colam, a representative from the Dutch owners at Aberdeen, said that the company bought back the gear, otterboards and warps at £1,500 and three nets at £4,000.

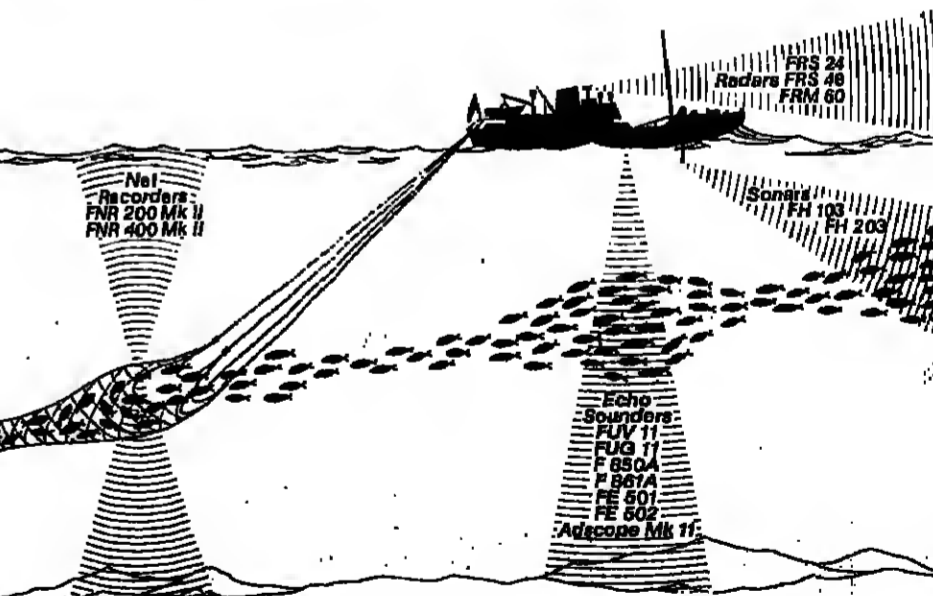
The catch was sold to undisclosed buyers and is understood to have fetched £7,980.

Maria left Aberdeen on Tuesday after payment of the fine was formally notified to Lieutenant Commander Ken Johnson of the fishery protection ship, which acted as custodian of the arrested Dutch vessels at Aberdeen.

The Dutch fishing industry has reacted angrily to the sentence to the *Maria's* skipper. The Dutch say that their boats could be tied up for a lengthy period causing some unemployment, but some of the herring boats might turn to horse mackerel, a fish not for domestic consumption in Holland but for export to Africa.

Mr. H. Bosmans, Secretary of the Dutch Fishing Foundation, said he thought "it was a ridiculous sentence. The game should not be played quite so hard as this, but I

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Reply in confidence giving full personal details to File 9888.

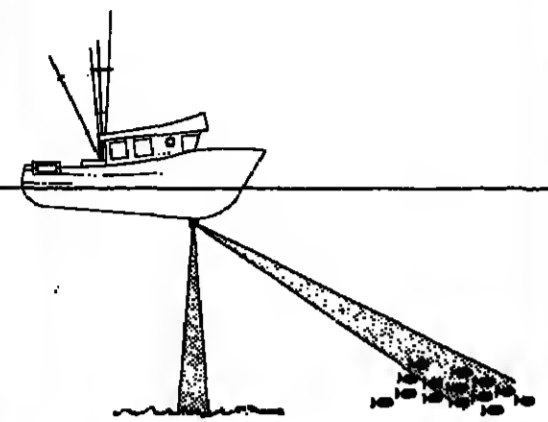
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'POLICY SWITCH' ON LIMITS ANGRYS BFF

A POLICY switch by the government in suggesting "dominant priority" as an alternative to an exclusive zone in a revised Common Fisheries Policy has drawn an angry response from the

British Fishing Federation.

"There is no alternative to a 50-mile exclusive zone if the nation's fish resources are to survive," it says.

The sudden switch in Luxembourg last week came as a shock to both fishermen and

port MPs, says the BFF. The government had consistently been emphasising its commitment to an exclusive zone.

"The first hints of a change in direction came in a speech by Fisheries Minister John Silkin in last week's Commons debate and it tended to

be obscured by the emphasis on "radical redesign" of the Common Fisheries Policy, the BFF says.

"As far as we are concerned there is no alternative to a 50-mile exclusive zone," said BFF spokesman.

"It has always been a contention — and one which we understood the government and the whole of the Commons shared — that a 50-mile exclusive zone was a

sentinel conservation zone, not a means of enforcing a quota, more important means of enforcing a quota than the UK obtains a share of the total EEC catch."

"The Community is not capable of enforcing a quota. All possible alternatives must rely to a greater extent on the goodwill and efficiency of member states. That cannot be guaranteed as the argument of North Sea fishing demonstrates."

"The only alternative to an exclusive zone is, in any way it is dressed up, a form of Chest's Charter."

Devon Sea Fisheries Committee is to present urgent repair work to the Clovelly breakwater.

The crumbling breakwater is proving a danger to Devon fishermen who are forced out of business because the harbour is made unusable by the breakwater.

The breakwater is owned by the Clovelly Estate which says it is unable to fund the repair work. Fishermen, however, fear the crumbling wall could collapse, resulting in no protection for the harbour.

It is hoped that the Estates may consider the breakwater to be a public utility and enable the Devon Sea Fisheries Committee to help financially with repairs.

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Faroe trawler ready soon

THE FIRST of four 87 ft stern trawlers being built at Campbeltown Shipyard for Faroea fishermen was launched on Saturday.

The 2600,000 vessel was named Von (Faroea for hope) by Mrs. Oda Andersen, wife of one of the owning partnership, in a ceremony watched by the Faroea Prime Minister, Atli Dam.

She is due for completion by the end of next month, after which she will sail to her home port, Torshavn.

The order for the four ships came through Sjøfartsselskapet Ltd., in the Isle of Skye, which is Campbeltown shipyard's Faroea agent.

Traditionally, Faroea ships are built in Norway.

Von has a 683 bhp main engine.

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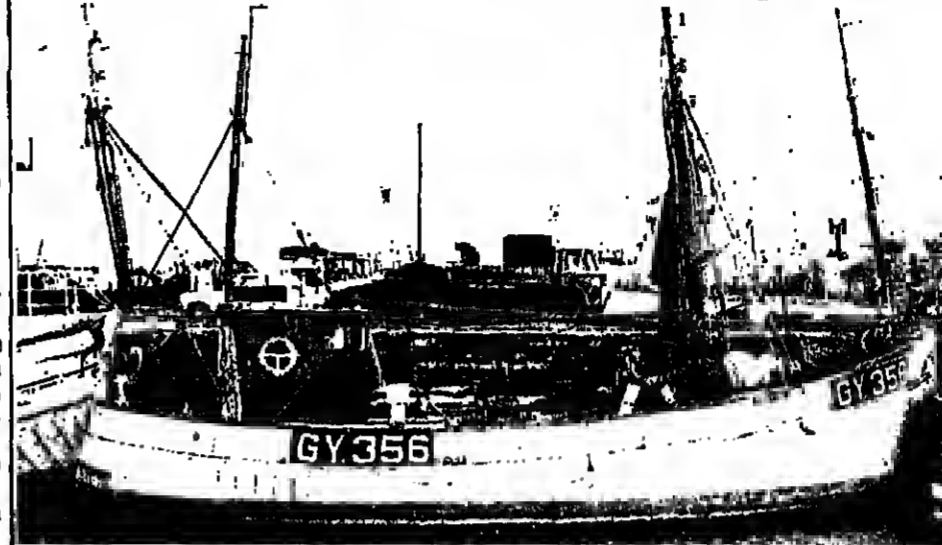
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Boyd buys another inshore boat



THE 40-TON wooden Danish anchor-seiner Pandion has been bought by the Grenaa Fishing Co. Ltd. of Grimsby, a subsidiary of Hull's Boyd Line.

Pandion, formerly operating under the Danish flag (E 318), is the second Ebbjerg vessel to join the Grimsby fleet in the past month.

Her addition to the Grenaa Co. boosts the inshore inter-area of Hull deep water owners, Boyd Line Ltd., which bought up the Grimsby company last spring.

Pandion has joined the fast-expanding Denbirt (Fish Salesmen) Ltd. agency, as have Boyd's other subsidiary vessels at Grimsby, the pair trawlers Grenaa Star and Grenaa Pearl and the anchor-seiners Grenaa Way and Helian.

Left: Pandion at Grimsby after fishing her way across from Ebbjerg. She grossed £6,467.

In less than six months the Danish fleet has risen from one vessel to 24.

Pandion got off to an excellent start with a fishing trip across from Ebbjerg under Skipper Borge Host. The team pleased everyone concerned by making a big £6,467 grossing from 103 kits, mainly of fine North Sea cod.

The 61 ft. seiner — now been re-registered as GY 356 — was re-angled with an eight-cylinder Gardner two years ago. On deck she is well-equipped with a hydraulic power block and Rammas seine rope storage drums, both driven by two hydraulic motors with power take-offs from the main engine.

The vessel has been exceptionally well maintained by just one owner since new.

'SARB J' IS LAUNCHED FOR 'BRID'

DEVON Sea Fisheries Committee is to present urgent repair work to the Clovelly breakwater.

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Line boat's demo trip

SCOTTISH fisherman and others interested in the Braasolara fish drying plant development in the Hebrides inspected the advanced Norwegian automatic lining boat Oyliner last month.

The 86ft. vessel broke her hopefully, in introducing her passage to the Rockall tain elements of new grounds to visit Stornoway, that is why we have invited where the boat's Mustard Oyliner. We don't covise Autoline system was demonstrated.

The vessel's automatic baiting system was also explained at a film show in the Royal Hotel, Stornoway, by Mr. Silken of Mustard.

Jim Lindsay, head of the Highlands and Islands Development Board's fisheries division, said: "We don't want to give the impression that the board see the Norwegian fleet playing any role in supplying the Braasolara fish drying plant. We have certainly been active in identifying and

Oyliner — the 86ft. Norwegian boat which demonstrated the Mustard Autoline system at Stornoway.

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Come-back by Tweed yard

A SHIPYARD which ran out of orders is now back to business under new management.

The Tweed Shipyard at Berwick is waiting for the outcome of 'a couple of tenders for fishing vessels' and is going into repair work in a big way, according to the commercial director, Mr. C. R. Mee.

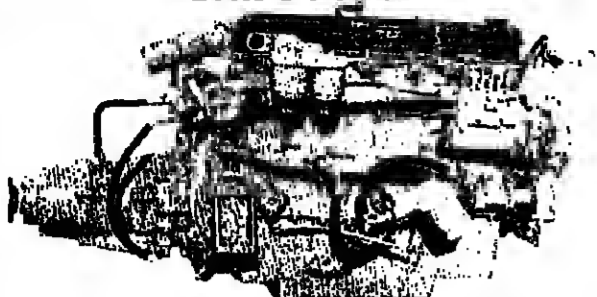
The old-established yard has changed hands a number

of times in recent years and its last fishing vessel was the 86ft. Lorenzo, which is now pair trevillor from Fleetwood with her sister-ship, Benolito, also built by the yard.

Delivery dates are to be 'tightened up', according to the yard, and it is quoting 'reasonable charges' for slipping and blocking to attract repair work. Ships up to 250 tons can be built and repaired by the yard.

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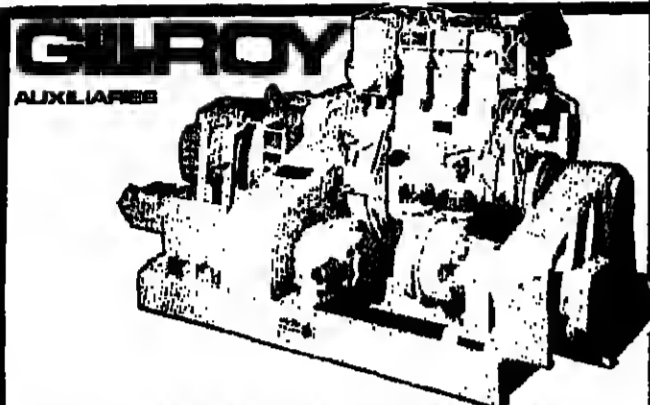


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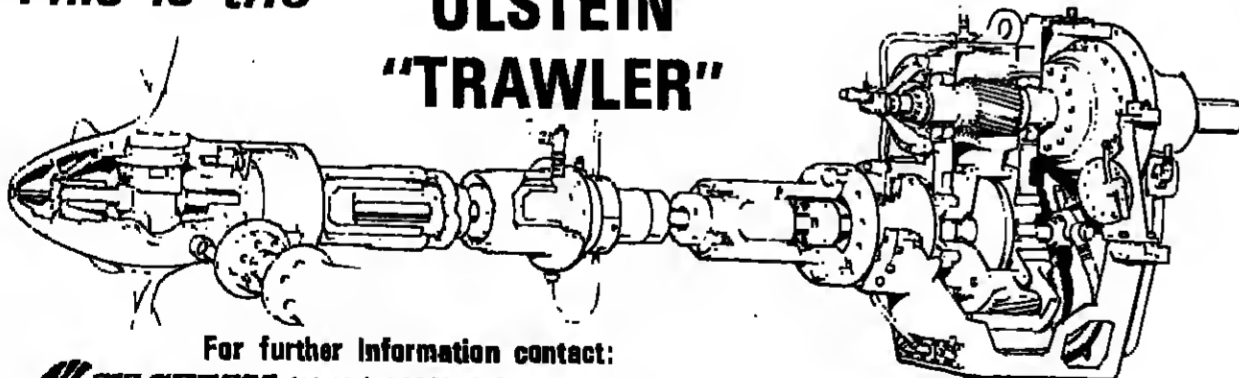
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Records on ice at Newlyn



A DUTCH ice-making machine has been helping a Cornish liner to some record-breaking catches. With this new equipment on board Skipper Mike Hosking (left) made 28,153 for 2,600 stone of ling at Newlyn recently in the Dew-Genen-Ny.

This 86 ft. vessel is the first in the West Country to install a modern ice-maker and refrigeration system on board.

Manufactured by Promec, Holland, the system was installed during a recent

general refit at Hidesford Shipyard.

Skipper Hosking told *Fishing News* on Monday that the system meant a better product for the consumer.

With the fishroom cooled to one degree above zero the catch can be kept in top quality, with return to port on Friday and marketing on Monday, if need be.

"We landed fish on the market this morning which you would think had just come out of the water."

"The merchants also say it is an outstanding success from their point of view."

Built at Aberdeen some 15-months ago, *Dew-Genen-Ny* can now provide two tons of ice in a day.

After the week-end in port there are four tons of ice ready for the crew when they leave port at the start of a fishing trip. The forward ballast tanks can then be filled with more fresh water so

that there is, in all, eight tons of the crisp, white ice... enough for the whole trip.

Now the 86 ft. vessel is tied to a market, and a place. "They tell us we keep fish in good condition from seven to ten days," Hosking added.

The catch can also be kept over to enable it to be distributed more evenly at the market.

"It was expensive, but certainly is proving itself in these few weeks," he said.

Speaking about his record Skipper Hosking said he believed that without the system the fish would have gone ashore in only 50 per cent of the condition that it is landed, and that they were not have been able to catch such a large catch.

"We would not have been able to bring ashore such a large quantity of fish in such quality," Mr. Hosking declared. It was caught miles west of the Isles of Scilly.

The white fish is gutted, deck and brought down to the hold which is a fibre lined. Fifty tons of fish can be refrigerated in the hold.

"We can prosecute the fishery in much more economic terms," he said. See page 18

MACKEREL PROBE

THE IRISH Government has given the MAFF research ship *Cirion* permission to work on mackerel investigations off the coast.

From July 12 to 27 she will be joined by John Molloy of

the Irish Fisheries Department, who is well-known for his years of study on the herring.

The vessel will work off the Irish south coast as part of a series of voyages to probe the western mackerel stocks.

COMMENT IN RUSSIAN HANDS

THE LONG-HELD fears of the British distant water industry have been realised with Norway calling a halt on EEC fishing.

This move has virtually delivered the fate of the British freezer fleet into the hands of the Russians. The only grounds of any potential are in the Russian-controlled area of the White Sea.

The Bear Island grounds, usually finished about now, are petering out fast. If Iceland was still available, Bear Island would not even come into consideration.

With this reliance on the Russians to keep some of our freezers working, there will no doubt be anxious thoughts cast back to May this year when the Grimsby trawler *Barnsley* was ordered to leave these grounds. Although this was later described as a mistake — for which the Russians apologised — there are certainly fears that the Russians, who said the trawler would not be allowed in again until there was an agreement between Britain and Russia, could repeat this action.

It can now be seen just how effectively the

EEC has wrapped up our distant water fishing. The gutless negotiations with Iceland, allowing member fleets to run wild in Norwegian waters has rebounded on Britain.

In the light of the havoc it has wreaked on British fishing, there can hardly be any sense in justice on the part of the EEC over our unilateral action on North Sea herring.

A little knowledge

WHY CAN'T politicians just do a little homework before leaping to their feet as saviours of the fishing industry? At present BAN must be the most overworked word in fishing circles; now we find a Tory spokesman in the House of Commons calling for a complete ban on industrial fishing.

There will certainly come a time when some restriction will have to be put on industrial fishing but, as far as the British fleet is concerned, that time is not now.

Times have changed. The days have gone when we could brand people like the Danes as villains because they fished heavily for our plants. Next winter British trawlers will be moving down to the south-west to fill up the voracious Danish plants with mackerel — as well as our own factories.

Like it or not, we need the fish meal plant. The food market is just not there for the fish on which the future of British fishing is like being heavily dependant. Until it is, we will be wary of any move to put the depleted fishing fleet out of work.

While we need politicians to lend their support to the fishing industry, they should remember that a little knowledge can be a dangerous thing.

fishing news

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Pursers on the Humber

FISH MEAL plants on the Humber were busy again last week dealing with landings from Scottish purse seiners.

After some heavy sprat landings at Grimsby, the Scots switched their attention to Hull last week — and this included Britain's largest pursers, the 148 ft. *Setti Mori* from Fraserburgh.

Some of the heaviest landings of the week were made by the Tait brothers from Fraserburgh in *Comrade* and *Challenge*.

After making weekend landings in the region of 180-200 tonnes at Hull, the pursers were back again fully laden in mid-week.

This time *Challenge* put ashore 208 tonnes at Grimsby, but *Comrade* headed back to Hull as the South Humber side port was having its first look at *Sedulous* which arrived deep in the water with 184-tonnes aboard.

On the grounds fishing was reported as 'steady' and vessels were filling up so quickly they were able to make the round trip from Scotland without adding to the considerable Humber side landings.

A 120-ton catch was put ashore at Hull by the Scottish vessel *Conquest*.

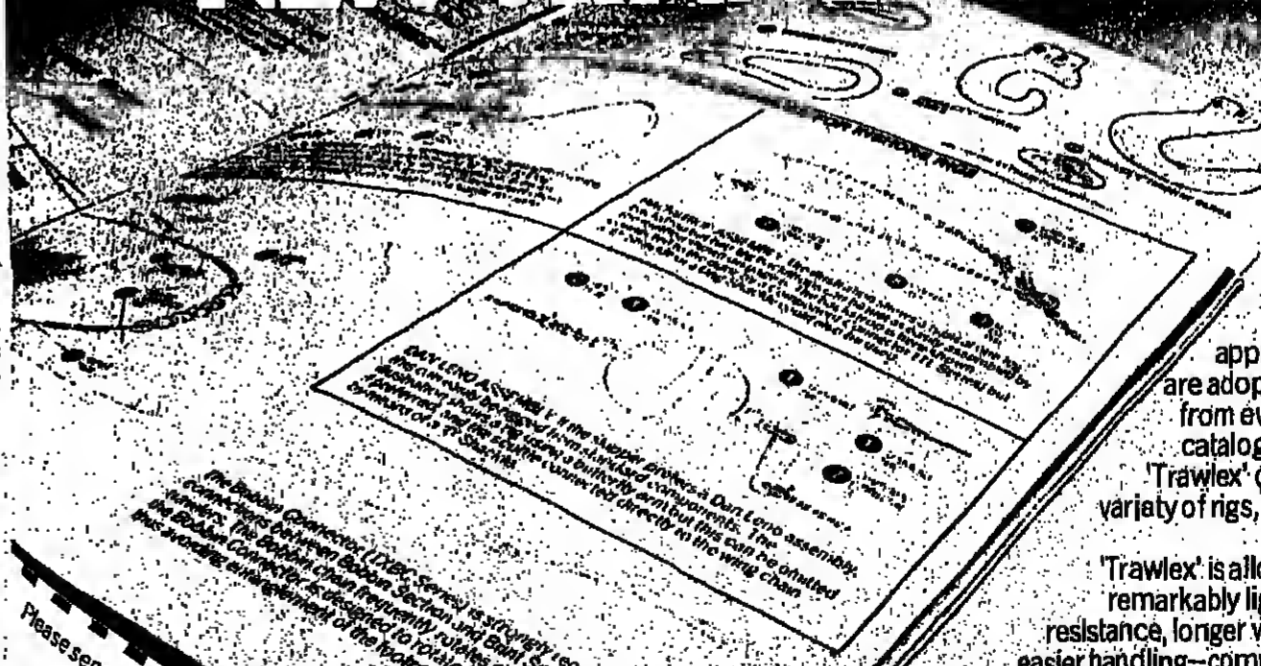
Top right: *Challenge* and *Comrade* with a load of sprats on at Hull. Right: the 148 ft. *Setti Mori*, commanded by Jim Slater from Fraserburgh, moving in to put ashore sprats at Hull.



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DOUBLE THREAT TO SALMON STOCKS

WHITE FISH men on the Scottish east coast pressing for salmon licences and an increase in illegal drift-netting at sea are causing "serious concern".

These two factors, says the Association of Scottish District Salmon Fishery Boards, may demolish Scotland's position as one of the world's few remaining large-scale producers of Atlantic salmon, and destroy

the nation's great salmon resource.

Drift netting for salmon was banned by the government following the recommendations of the Hunter Committee in 1961. Despite this ban, drift netting at sea has recently re-started and enforcement of the law has become more difficult.

The already serious effect of illegal netting, in the view of the association, could be made enormously worse were the law to be changed to permit

the Department of Agriculture and Fisheries to issue licences to white fish fishermen to catch salmon off Scotland's coast.

The association appreciates the damage which white fisheries have suffered as a result of the failure to obtain international agreement on a 50-mile limit. They support the white fishermen's case on this issue but cannot accept that, because stocks of white fish have been depleted and are under pressure, the hitherto successful conserva-

tion of salmon stocks should now be abandoned.

If licences were to be issued, says the association, would eventually destroy the livelihood of professional fishermen, also of fishing hotels, and seriously affect employment in remote districts where considerable work is being done to develop the nursery of salmon rivers.

The ultimate result is that Scots Salmon will disappear.

Why the drift-net ban should stay

LETTERS

SIR, Your issue of June 3 included an article headed "End salmon drifting ban". The lifting of the ban was being called for by the skipper of a white fish boat at Peterhead.

This is to provide these boats with an alternative fishery following over-fishing and difficulties in the white fish industry.

This letter gives the other side of the coin: the case for conservation of salmon stocks. This is the reason the ban remains in force despite ten years' lobbying of the government by Peterhead fishermen. They never mention that

they — and anybody else — can tender for salmon fishing rights. These are openly on offer by the Crown, Department of Agriculture and Fisheries and private estate owners, and some of these leases are well within the financial of small operators.

The white fishermen want to drift for salmon and make big catches with cheap monofilament nets. They are asking the government to make legal what is being done all round the coast by many illegally.

It is alleged that salmon worth £700,000 was taken by drifters last year. This year there are four cases awaiting trial (others earlier) but only a few are caught. One skipper engaged in drifting boats they'll never be caught as they are taking turns as watchmen.

Recently there was an article in *The Sunday Post* about modern pirates making a killing off the east coast of Scotland. One boat recently earned £9,000: not bad for a day's fishing. Many small salmon stations do not get that amount for the whole season.

The article goes on: 'It has been estimated that thousands of pounds of salmon are caught illegally by unscrupulous fishermen and the fish is landed at ports throughout Scotland. They are reaping rich rewards with illegal drift nets, strategically placed off the shoreline.'

'Often identification marks on the boats — port registration and names — are painted over with distemper to prevent them being traced. Later the paint is washed off to allow them to land at any port. It needs a constant vigil to stamp out this menace.'

It is not surprising that, with all this going on, the legitimate salmon fisheries have been getting considerably reduced catches these last years. The February/August open season is only fished May/July at many stations.

The lobster and white fish

fishermen receive grants and loans for their boats which are not given to salmon fishermen and there are heavy gear costs even for the smallest station. The fishermen who want the drifting ban lifted are asking for the right to deprive others of their livelihood.

It is not true to say the government brought in the ban on drifting in 1962 without evidence of its destruction. That can be ascertained by anyone taking the trouble to enquire. The government followed up with the ban on the use of gill nets previously permitted to the salmon fishermen for the same reason, though inshore in comparison with drift netting.

The method used for catching salmon commercially in rivers is by sweep net. The rivers are not dragged non-stop, in some cases they are worked only around 1 1/2 hours each side of low water; in others only the most likely times for catching.

It is stupid to contend that the prime objective of those engaged in sweep netting is not to allow one fish to get up the river to spawn. No spawning, no salmon. Indeed, many owners of river rights take out a given number of fish each season and fully stock their rivers.

between the Cornish coast and the Irish coast, the police at Rodriguez broke the law. Skipper Rodriguez was ordered to forfeit his boat worth £1,500 and to pay costs.

His vessel was arrested by the Royal Navy fishing the Aurora 90-miles off the Scillys. A Plymouth magistrate fined two poaching skippers £10,000 each for month.

The court was told that, when the median line

Research chief DIRECTOR of fisheries research at Lowestoft, Mr. Lee, has been appointed controller for fisheries research and development in Scotland. He succeeds Basil Peck, a former director of the Marine Laboratory, Aberdeen. His appointment is for a year period.

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380 meshes in 5" polyethylene netting 5" wings, complete with gearscope DKR. 9,800.00 (£970)
350 meshes in 5" polyethylene netting 5" wings, complete with gearscope DKR. 11,200.00 (£1090)
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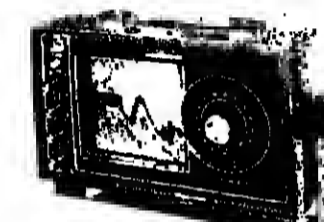
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50 years ago

... Recalling some of the stories which appeared in our columns this week 50 years ago.

JULY 9, 1927
FISH dues of 1d. in the 4 to be introduced at Brixham harbour.

BOY of 16 sent to hospital for three years after stealing a crab from McClellan's. Iford branch; he was 'an associate of thieves'.

ABERDEEN sealer lends 300 boxes of lemon sofas and pieces from Iceland and grosses £500.
SAILOR given nine months' hard labour for stealing the Laigh-on-Sea boat *Clady*. Earlier, he stole another fishing boat and wrecked it in the Chennal.

PETERHEAD Trawling Co. disposes of its six-strong fleet after making a £3,500 loss.

MILFORD Haven building up its trawler fleet. About six more boats based at the port in recent weeks.

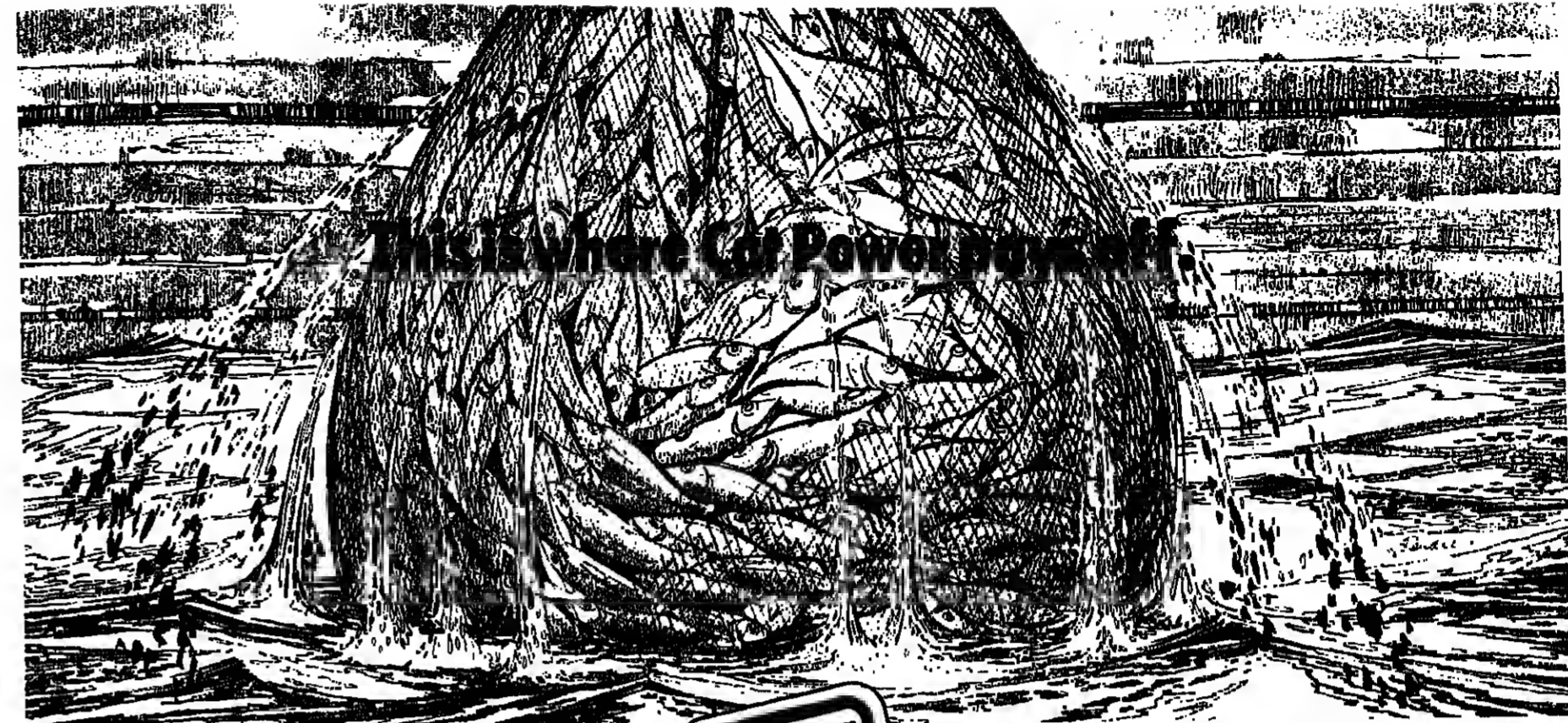
GERMAN fishery cruiser pays first official visit to Aberdeen since the war. She is not armed.

FISH delivery motor cycle outfits costing £50 to £60 run for 1d. per mile.
ITALIAN trawling company, working the North Sea makes a £20,000 loss.

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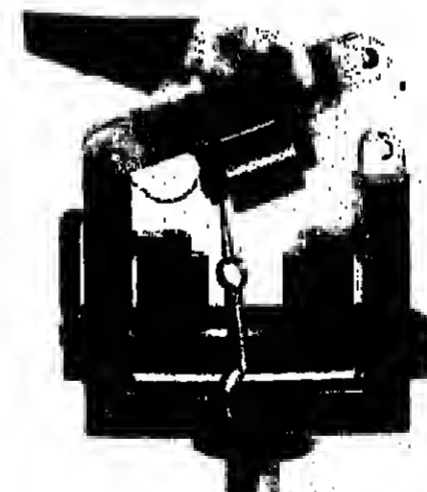
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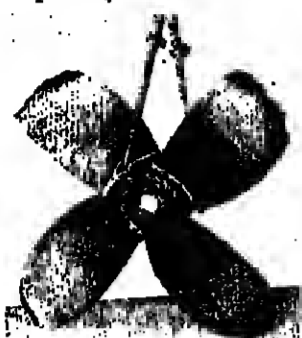
Baron Instruments Limited, 100-102, Victoria Road, Weymouth, Dorset, DT8 3JH. Tel: 01939 352 474. Telex: 90543.

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GROUNDROPE RIGS FOR THE ROUGH

"WE TRAWL smooth ground close inshore mostly. But we have not been doing too well lately and are thinking of trying some roughish ground further out.

"We usually use bass rope with some leads around it for groundrope but are afraid that it would get cut to bits on anything except smooth ground.

"We have, therefore, been thinking of using a wire groundrope with bobbins on it.

"If this would make sense, what kind of bobbins should we use?"

■ As long as you divide the wire into two or three lengths and lash ends together with fibre twine, which will part if you encounter a major snag, your idea seems sensible enough.

Bobbin

It would be equally sensible to use a bobbin made of the same type of aluminium alloy as deep sea trawl headline floats, an 8½ in. diameter banded spherical bobbin which weighs a little over 4 lb. and has eight holes in it.

This type of bobbin is light

Oilskin supplier

"I HAVE tried all over Anglesey and in Bangor to get Viking Hi-Glo oilskins — without success.

"Please let me know the name and address of any manufacturer or distributor."

■ Sole UK distributor of these oilskins is The Asbestos and Rubber Co. Ltd., Waverley Street, Hull HU1 2SL.

FREE ADVICE

A NEW comprehensive list of government establishments which issue free technical and other information to members of the fishing industry is now available.

The list has been compiled by J. J. Waterman of the Torry Research Station and has been published as Torry Advisory Note No. 70.

Purpose of the Note is to list government departments and other organisations in the UK supported by government funds, which are prepared to give technological advice and assistance to the fishing industry.

It also outlines the role of each so that anyone seeking advice can quickly discover which organisation is best to ask.

The list contains names, addresses and telephone numbers of no less than 31 departments or organisations. They are printed in alphabetical order, and there is a subject index.

Therefore, if you know the name of the concern you want, you can refer to it directly to discover exactly what services it can provide. If you want advice or information about a particular matter and don't know which

to handle on board, fills with water and sinks quickly. It is most durable and affords groundrope and not good protection on rough ground.

The bobbin can be kept in position on the groundrope wire by means of 'locators' designed for use with it. These are circular metal fittings which can be fixed to the wire on either side of a bobbin.

Both bobbins and locators are obtainable from Cosolt in Grimsby or any of the company's branches.

Do-it-yourself net twine

"HAVING recently obtained quotations for trevils, trammel and gill nets, I have become interested in the feasibility and economics of making my own.

"Please send any information on synthetic twines available today and the types of net which each sort of twine goes to make."

■ Principal synthetic twines used in the UK for making nets are constructed from nylon, polyester, polyethylene or polypropylene fibres.

Nylon, for instance, has a specific gravity of 1.14 and twines made from it will sink in sea water. They are immensely strong for their size compared with twines made from vegetable fibres and will stretch further than any other types of twine — without breaking.

Specific gravity of polyester (from which Terylene is made) is 1.38 and twines and netting made from it will, therefore, sink. Terylene twines have about the same strength as those made from nylon but do not stretch in the same way. They are the most expensive of all fish net twines.

Specific gravity of polyethylene, generally known as polythene, is about 0.95 and twines made from it

will float. They do not absorb water and, like twines made from nylon and polyester, are resistant to rot and attacks by bacteria, fungi and most chemicals.

Prolonged exposure to strong sunshine will weaken polythene twines but their resistance to abrasion is high. They are less expensive than either nylon or polyester twines but not as strong.

Resistant

Specific gravity of polypropylene is 0.91 and twines made from it will also float. Some of them are as strong when wet as twines made from nylon or polyester and are equally resistant to rot.

Such twines have good resistance to abrasion and, because of their lightness, have a greater runnage than most netting twines of equal thickness and similar construction.

Synthetic fibres are produced and twines made from them are constructed in a number of ways.

Synthetic fibres may be extruded in a filament of sufficient thickness to be used on their own (nylon monofilaments). In those slightly thicker than a human hair for making into twisted monofilament twines, and in filaments with a diameter less than that of a human hair for making into twisted multifilament twines.

The latter type of filament may be cut into short lengths (staples) about the length of vegetable fibre staples for spinning into yarns and then twisting into strands and twines.

Alternatively, fibres can be

MEET THE NEW WORKER

From a design by Alan Hill of Burnham on Crouch, and moulded to a very high standard, this sturdy 22 litre is well proven as a sea chest, offering a stable working platform. The large well deck gives considerable working space for a boat of this size with room to stow gear. The wide transom steps well in a handy for travelling. The almost full width wheel shelter provides a lee for the deck. Two built-in galley and sink are situated forward of the wheel-deck. One built-in stove for immediate delivery.

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ANY QUESTIONS?

IF YOU have any questions about boats, equipment, gear or anything else, please write to us. We are always prepared to try and answer them if they are sent with a stamped addressed envelope for reply.

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fish handling PROCESSING AND MARKETING

THE WAY AHEAD

FANCY A krill finger, a chewy slice of dried deepwater squid, or a succulent steak reconstituted from anchovy protein? These are some of the seafoods which could be on the market within 25 years as fishing struggles to meet a food demand that could double to 110 million tons a year.

At present, according to Food and Agriculture Organisation (FAO) calculations, about 45 to 50 m. tons of the yearly catch goes into direct human food use. Cautious projections of population trends, without allowing for rising living standards and the influence of new technology, suggest a doubling of the need for seafood protein.

Most of this will, of course, be required by the under-nourished countries of the third world and it is there that we shall probably get the most significant developments both in fish production and in processing, distribution and marketing.

But the impact will spread, and we can see changes in fish utilisation far more profound than any indicated by the present work on blue whiting, or by more intensive fishing for

haddock. In FAO parlance, these species are already "conventional", if unexploited.

Assuming that technology makes them readily catchable, almost all species now being harvested will be by the year 2000 he going directly to food. Fish meal plants will be getting only the waste from processing plus species outside the "conventional" category for which catching and handling methods have still to be perfected.

Looking first at the demersal marine resources, the FAO estimates of potential is around 25 m. tons a year. Unexploited stocks, which include grenadiers and other species in very deep waters, make up about 15 m. tons; six m. tons might be found by diversifying industrial catches to food use.

Another four to six m. tons could be found by using edible fish which is thrown away in the pursuit of higher priced catches — the "trash" from shrimp boats or the discards from deepsea trawlers. And reduction of post-harvest losses is seen by FAO as one of the quickest and most certain ways of bringing up the food supply.

Next, and still within the "conventional" range, are 25 to 30 m. tons of "small pelagic fish" still not being heavily caught. Within this category, too, are 11 m. tons of catch presently going for meal. This includes the harvest of anchovy which, in the future, will become a source of protein powder, minced fish and the base material for preparing those steaks and other nourishing foods.

Like the enormous wall of resources of the Antarctic, that of cephalopods has to be a wide estimate — between 10 and 100 m. tons says FAO — and the reason is the mystery

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Back on the bench
JOHN BENNETT, deputy-chairman of Associated Fisheries, went back to the filleting table recently. The occasion was the retirement of Harry Sims, who has been with the firm for 49 years, and both men took part in a friendly filleting contest. Harry finished his time with AF as a supervisor at the J. Bennett (Billingsgate) depot in Bermondsey, London. He was presented with a cheque and gold watch. From right to left: D. Centwell-Field, distribution manager, S. J. Pearson, financial director, Harry Sims with one fish, John Bennett with the other fish and Harry's wife Doris between the two friendly contestants.

Scampi boost

A BUCKIE-based seafood firm is set to treble production. Around £250,000 is being invested by Moray Fish to improve storage, processing and freezing plant for scampi and shrimp.

An 18M FLOFREEZE blast freezing system has recently been installed at the factory by Frigoscandia as

part of this big investment programme.

The managing director of Moray Fish, Charles Eckerley, sees the investment as a major step forward by the company and one that has beneficial effects for both the east coast Scottish fishing fleet and the company's international customers.

"The blast freezing of

Turn to page 11

Fish on tow

A COST-cutting way of transporting and storing frozen fish is the insulated trailer (below). Said to cost half the price of an insulated van, the trailer is named the Isolator and it is light enough to be towed by a medium-sized car. A choice of refrigeration plant is available for the trailer which has many uses, including storing seafood at the water-side, acting as a buffer store for hotels and restaurants, moving fish to delivery points and holding stock for delivery vans. The Isolator has twin axles for a smooth ride and some refrigeration units are complete with automatic defrost and temperature indicator. It is made by Unit Panels of Leek, Staffs.



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55 years constant service to fishermen and their families



With all the problems there are in the fishing industry at the moment, Quotas etc. Quotally of finished product is of paramount importance and we believe we can offer to the fish trade a service which is second to none. Our fish units have a wide range of facilities which include vertical plate freezing, blast freezing, IQF, splitting, cutting, grading, shell fish processing, quality control and packaging. We also have space for development and we would, on contractual terms, be prepared to extend and increase our facilities to meet your requirements. If you are interested in processing/storage or developments, please contact our U.K. Sales Manager in London and he will be pleased to call on you —



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FISH HANDLING, processing and marketing



What's happening to Britain's climate?

Long hot summers can play havoc with inefficient refrigeration equipment as many users have found to their cost. The way to safeguard valuable stock and take the heat out of a sticky situation is to call in Prestcold . . . before trouble occurs.

Prestcold service means specialist advice on any cooling, chilling, freezing or air conditioning application; over 500 field engineers linked into a national UK network to install equipment, maintain it and ensure that you get the best from your investment; 50 depots throughout the country carrying more than £5 million worth of warehouse stock and parts; plus the knowledge that Prestcold makes, in Britain, the plant it installs . . . and exports around 50% of all production to 91 tough overseas markets.

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If you blend together different fish meats adding potato flake, seasoning etc. you may need a Guylew BLENDER with the gentle mixing action (180-230-460 litre sizes).



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Tel 0482 62582

Seawater 'on tap' for London lobster tanks

LOBSTERS from Scotland are ending up in refrigerated seawater tanks in London. These tanks have recently been installed by the firm of Minch Wholesalers at Billingsgate market.

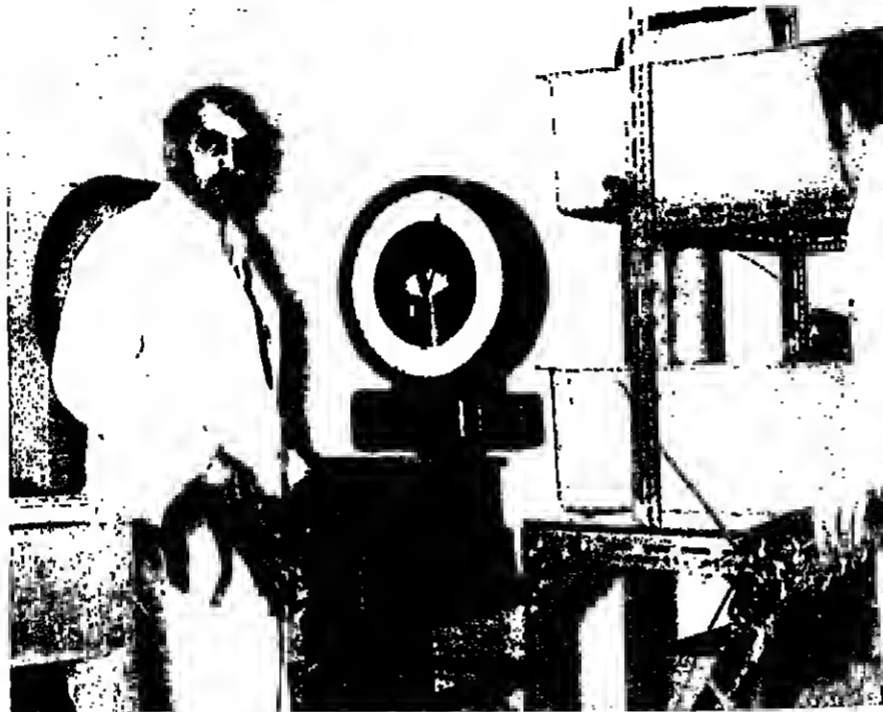
There are six portable glassfibre tanks in two tiers, with two storage tanks acting as water reservoirs beneath. One of the bottom tanks has refrigeration plates in it, and cooled water (45° F.) is constantly circulating. The tanks hold 600 gallons.

In the tanks are lobsters (1,000 lb. of lobsters can be accommodated at any one time) and crabs are occasionally kept there as well. But the sea water comes from a tap, with artificial salts added.

The seawater idea came from Mr. Hillary, who is in charge of Minch Wholesalers' parent establishment on North Uist, in the Outer Hebrides. He experimented until he got the mixture right, which is important for places with no seawater available, or if the seawater is not pure enough to be used.

Minch Wholesalers have the only shellfish storage tanks at North Uist and the current price paid to fishermen for lobsters is around the £1.85 per lb mark. Scallops are also bought, but lobsters are the mainstay.

There is an export trade from North Uist, and from another establishment at South Farnbridge in Essex, either by air or by refrigerated truck, supplying markets in France, Belgium, Holland and (more recently) in Germany. In addition Minch Wholesalers have a processing factory at Portree, on the Isle of Skye, where they buy fish, prawns



Above: weighing the lobsters before putting them in the tanks.

and some lobsters from local boats. The South Farnbridge processing factory has been leased from Jarno's, and Minch Wholesalers have installed new pumps and pipes to the river bed, etc. (see water is drawn from the tidal river Crouch). The tanks here were the subject of a *Notionwide* television

programme last year. Soles, turbot, etc., are frozen for export to wholesalers, generally in 56 lb. packs, the fish being supplied from North Uist rather than from local boats.

The Billingsgate end of the business gets most of its lobsters from Scotland, while crabs are sent up from the West Country. Soles come direct from Holland.

Ray Brand is in charge of the tanks while Alec Wall is salesman on the wet fish side

THE WAY AHEAD

From page 9.

of the large oceanic squid, known to be there but still unseen and unmeasured.

Out in the oceans and mainly beyond 200-mile limits are the small, scattered but abundant mesopelagic species, such as the lantern fish. Their habitat is mainly tropical and the estimated resource of around 100 m. tons could one day be for the developing countries, which might become for the nations able to deploy expedition fleets of costly factory and catcher ships.

Krill estimates range from 50 to 150 m. tons. Recent forays into the Southern Ocean by West German and Polish vessels have had one very significant result. For the first time, the very big pelagic trawl was used on a commercial scale on the swarms of this very small crustacean and daily catch rates of 150 to 300 tons a trawler begin to look possible. The Germans in three months achieved rates of 24-30 tons an hour many times, and the best haul was a remarkable 35 tons in eight minutes.

Frozen

For the latest Antarctic summer season, Poland sent an expedition of five ships and it is believed that a few were still there in June trying out the possibilities of winter fishing.

Krill, it seems, can be caught but the problem remains of what to do with it. The Japanese have been marketing it frozen as krill, the Russians have been marketing it frozen as meal and it has been tested and found promising as a meal for animal or fish farm feeds.

Tests have also been carried out in Chile and Poland on machine methods of extracting krill meat from the shell. There are two or three different techniques and, from one of them, Chilean food processors this year made the first pecks of krill fingers.

'Cool' on blue whiting

BY 1981 nearly half the fish consumed in British homes will have been bought frozen, part of it probably in bulk amounts to be stored in home freezers.

From 28 per cent in 1976, the frozen product will take up its increasing share of a total market which is expected to fall by about two per cent a year.

Looking to the future in its annual review, Birds Eye Foods expects fish such as cod, South American hake and pollock to be used more

and more in place of cod, but it doubts that blue whiting will "have such a startling role to play as had once been thought".

Birds Eye says the fish has its possibilities, but the drawbacks include its diminutive size, short three-month intensive catching season and the attendant storage and processing problems.

If these could be solved, more use of blue whiting could help to take pressure off cod supplies.

Pressure

The pelagic species, mackerel and sprats, are also interesting Birds Eye which expects to be marketing some of them soon.

Speaking at the

presentation of the annual review, Birds Eye chairman Kenneth Webb agreed that it would be "in the national interest" to persuade the British public to eat the type of fish that would rescue the British trawler fleet from its dependence on cod.

But he implied that this would be beyond the resources of one company. While researchers and industry strive to bring in new, non-traditional species, the message from Birds Eye is that it will continue to provide what the public wants "for as long as we can get supplies".

Right: Birds Eye chairman, Kenneth Webb, says a change in fish-eating habits is "in the national interest".



Showplace for firm's cooling products

AN exhibition/conference centre, planned as a European showplace for Prestcold refrigeration and air conditioning equipment, was opened last week at Tbeale, Berkshire.

The 20,000 sq. ft. complex comprises a 5,000 sq. ft. exhibition area; a lecture theatre equipped with projection room and facilities for meetings; and a 10,000 sq. ft. restaurant (opened in December 1976) accommodating 300.

On view in the showroom are representative models from the wide ranges of compressors, condensing units and assemblies made at Prestcold's Tbeale and Glasgow plants; also heat exchange products from Seeris Manufacturing of Fareham.

There is also a selection of valves and refrigeration components, plus special panels highlighting wholesaling activities, UK sales and export/overseas operations, and Prestcold's group structure.

The lecture theatre complements an existing conference room and has been designed to enable presentations of all kinds to be made using the latest audio-visual aids. It will seat 60 in tiered rows.

An integral part of the centre is the restaurant, built and equipped last year at a cost of £180,000 to provide meals for employees, as well as first-class dining facilities for visitors and functions.

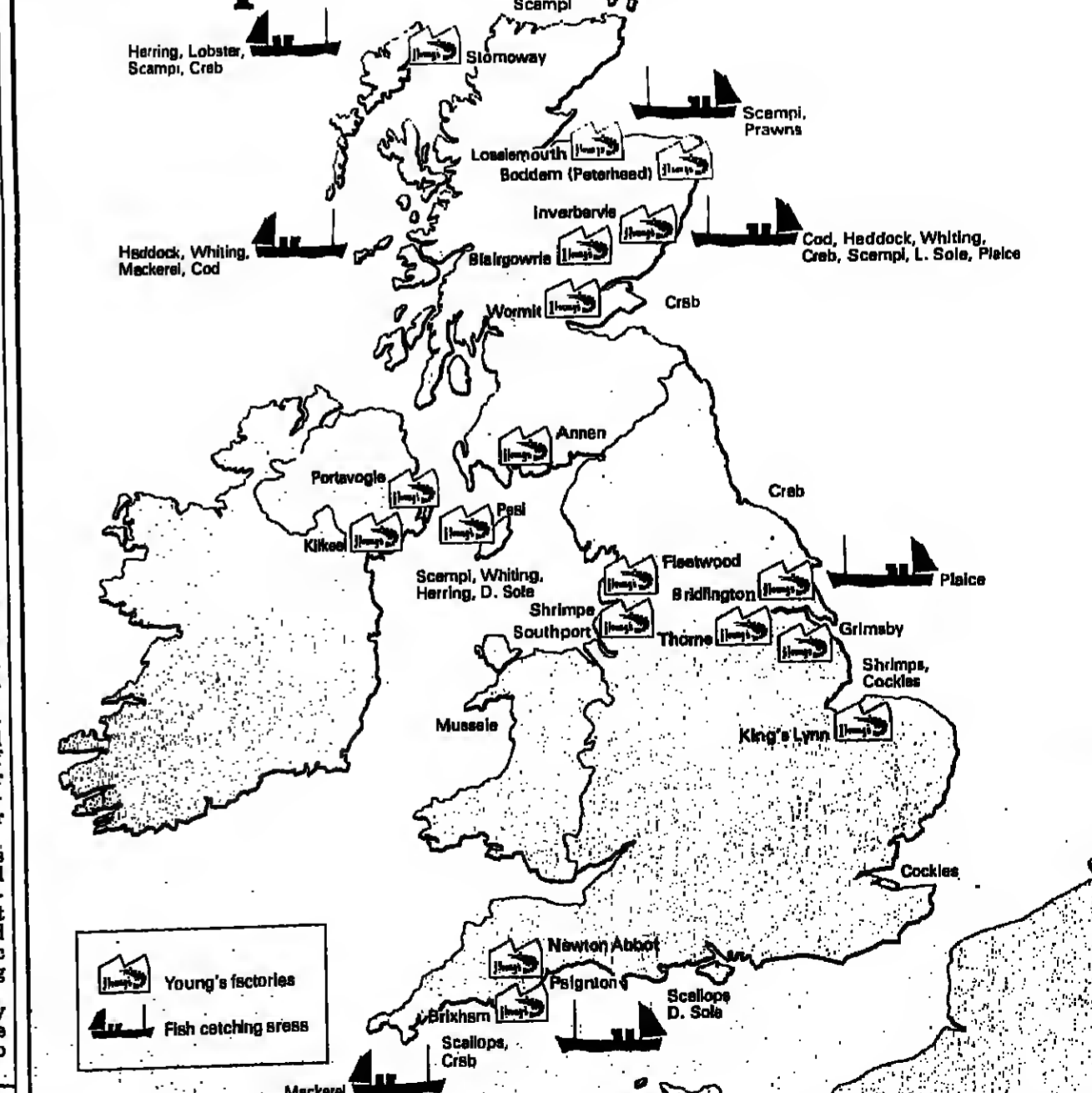
A wide choice of menus is offered using refrigerated catering equipment which includes a two-compartment coldroom; display and storage cabinets; automatic ice-makers and drinking water coolers.

There is also a six-tray blast freezer enabling a range of pre-cooked frozen meals to be prepared.

COLD STORE
A NEW £100,000 cold store at Aurworth Moor, Darlington, built by Hamco (Construction) Limited for Young's Seafoods, has been opened.

The 20,000 cu. ft. coldstore has office facilities which include a modern telephone sales section and computer link to centralised stock control systems at Thorne and Grimsby.

After 172 years, we've spread a bit.



Young's Seafood processing plants are down in Devon, up in Lerwick. Over in King's Lynn, across in Stornoway. So we're a national company, both in production and distribution. But we're also local - for one of the most important things we've learned in 172 years of seafood business is that the personal touch really matters.

You can rely on Young's. You can rely on British seafood too. Because - like Britain's fishermen and our customers - we have full confidence in the quality of this country's world-famous seafood.

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Young's Seafoods Ltd., Moulbarrow House, Elizabeth Street, London SW1W 9RE. 01-730 9942.

More than a game.

A DETERMINATION to cope with the problems of a changing industry was evident in Hull last month when the White Fish Authority Industrial Development Unit held its tenth course in business management in fish processing and marketing.

Based on a business management game and supported by lectures and discussion periods, the intensive

three-day course was specifically designed for the UK industry.

At least month's course, attended by eleven members of the industry, WFA staff lectured on corporate finance, processing, planning and control, and marketing developments.

Stanley Perry, production manager of Birds Eye Foods Ltd., also gave a talk on production management, and Peter Trimmingham,

marketing manager of Pindus Ltd., lectured on marketing management.

A major part of the course was taken up by the business management game. Played with the assistance of the WFA's computer, the game was based on the production and marketing of white fish in companies of small to medium size.

By putting the participants in a real life situation and creating a competitive at-

mosphere, the game introduced on the spot the various management methods and techniques which the participants had previously been taught.

A vital educational part of the game was the post-play discussion where the team members were expected to reveal their motives, the reasons for their decisions, the means by which they set out to achieve them, and the problems they encountered.

Commenting at the end of the three-day session, Mr. Hayden, a director of the Food Engineering Institute, said: "I found the course very good value for money."

Reinforcing Mr. Perry's remarks, Mr. Trimmingham said: "I found the course very good value for money."

Left: the business management game in progress. Right: Mr. Perry, production manager of Birds Eye Foods Ltd., also gave a talk on production management, and Peter Trimmingham, marketing manager of Pindus Ltd., lectured on marketing management.



SCAMPI

From page 9.

shellfish on a fluidised bed has been proven in a world-wide context to be a highly satisfactory, cost effective, way of processing "difficult" products.

"Our total investment is a vote of confidence in a sector of the fishing industry that has expanded in a most spectacular way. It is important, however, that this sector is stabilised by ensuring that all its constituent parts - catching, processing, distribution and demand - develop together in a balanced manner."

"Our investment represents our contribution and we can now handle a wider range of seafoods on some of the most sophisticated and highly automated equipment available today."

Despite the sizable investment at Buickle, Mr. Hayden sees the new half-an-hour line as something of a "pilot" operation and hopes that production by Young's Fish will be trebled in the very near future.

Fish strategy must come from Europe

THE FISHING industry would not be as strong today without the growth of quick frozen fish processors in the last 25 years.

Equally, the major national processing companies can all play their part in developing the market in the changing decade ahead to the benefit both of national balance of payments and employment criteria.

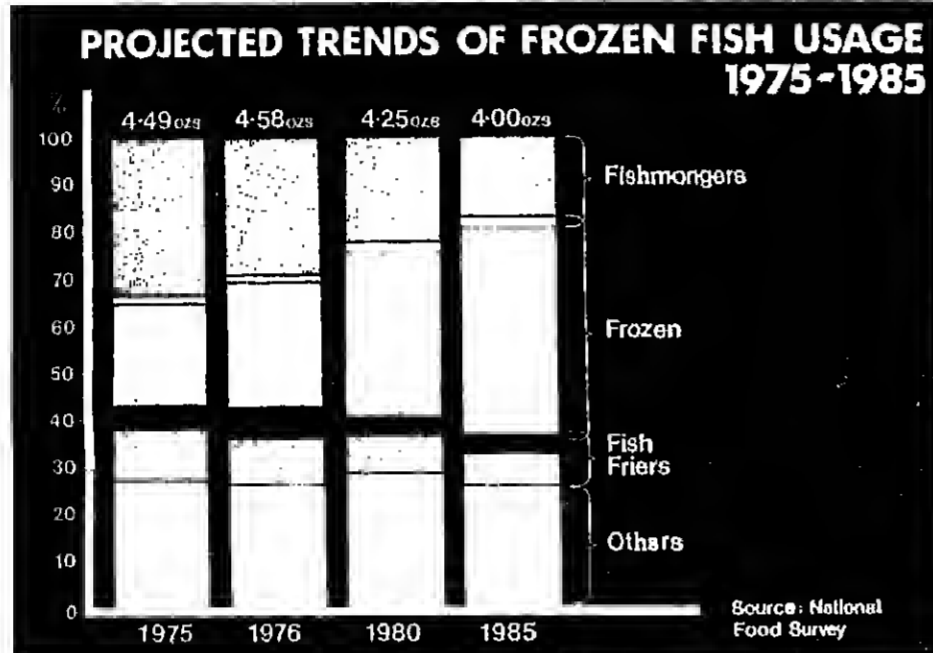
The pattern of change in the last 25 years has been dramatic. The number of traditional retail fishmonger outlets has halved, the number of retail fish and chip shops has diminished for a whole variety of reasons and the institutional and catering sections have been under increasing pressure.

Because the consumer of today is very quick frozen foods conscious, we can see that nearly half of all the cod consumed today is frozen and 30 per cent of demersal fish generally. This percentage is growing and our estimates would suggest that by 1985 the majority of UK fish consumption will be in frozen form.

Thirty-two per cent of

THIS ARTICLE is based on a paper presented by CHRIS MEOTTI, general marketing manager of Birds Eya Foods, in Hull last month. He was speaking at a conference on "The future of the British fishing industry".

Right: The table gives consumption in ounces per week. Six per cent of fish bought by fishmongers, and 30 per cent by fish friers, are quick frozen.



households today have home freezers. Again, by 1985, freezer ownership will be as common as car ownership today. The implications of this to the industry are immense. Besides shopping in bulk, the housewife will use increasingly large hypermarkets to reduce the number of shopping trips required.

The 56 million population in the UK remains an immense market of opportunity, particularly the 20 million over 45 years old. This, together with an increasing awareness of nutrition and health, can have a positive effect on fish consumption. The natural goodness of fish is the message to be communicated to the population as a whole.

Against this backdrop we must highlight some of the key consumer problems facing the industry in today's traumatic times.

Firstly, the customer shows a marked reluctance to pay the premium required for fish and, therefore, the overall trend in consumption has been downwards.

Equally, there appears to be an historical correlation between higher incomes and lower fish consumption, not a satisfactory start point, and not mirrored in other European countries. Socially, fish is not sufficiently acceptable. More than that, the British consumer has shown a marked conservatism when it comes to eating fish and has preferred the traditional species such as cod, haddock and plaice.

Trout

No company has applied energy and resources more than Birds Eya to widen this perspective. Indeed, over the last 25 years we have at one time or another introduced over 22 different species on the market such as mackerel, sole, whiting and trout.

Today we use eight, with 70 per cent of our sales still based on cod. The conflict between demand and supply of individual fish species is essentially a recent one and provides a new dimension in the changing conditions of today.

What, therefore, does the future hold? I do not claim infallibility but merely to represent the company which holds a pre-eminent position in the British fishing industry and has a sincerely held wish to see the industry recover from its present disturbed state.

Birds Eya has already supported the fishing industry of Britain to the level of over £20 million in advertising and promotion since the famous launch of cod fish fingers in 1955. Add to that an even greater sum for research and development on new fish products and we can justifiably claim to have earned our position as UK brand leader with 40 per cent

of the retail fish market through grocers.

In addition by the end of 1978 we had captured leadership of the growing home freezer fish market, so that today we hold 38 per cent of the total in-home fish market of Great Britain—three times more than our nearest competitor.

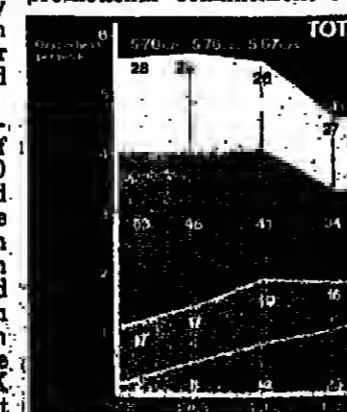
We have achieved this success principally as a result of an on-going 'Dialogue of Honesty' with the consumer. For example, when we launched economy fish fingers in January 1977, we made it perfectly clear in our advertising approach that our new economy fish fingers were fractionally smaller and not all cod, as they would cost less.

In short, we offered the customer a choice but we did not try to hide what we were doing. The result is that economy fish fingers have been very positively received by the housewife in this time of general economic difficulty.

Marketing fish requires imagination also. Our crybaby range, relaunched last year, is today selling 25 per cent more than a year ago and is evidence that even products which have been on the market for several years have latent growth potential.

Cod in sauce was introduced by Birds Eya in the late 1960s and even today we hold over two-thirds of the market. This concept is still capable of much further development with other species particularly suitable for this product range in the future.

Our advertising and promotional commitment of



over £1m. annually—equivalent of £25m. turnover over a period of 25 years—has been of benefit to the industry as a whole.

We regret very much that the rest of the industry has not joined us to an extent in developing the assumption generally that we feel that Birds Eya has more than carried its share of responsibility for increasing fish consumption over the last two decades. In fact, we regularly spend 70 per cent of the total amount spent on quick frozen food processing.

There are, in our view, three areas which will need a re-defined strategy to ensure that marketing conditions are adopted to the changing political and supply environment.

1. A more systematic advertising approach, encouraging basic fish consumption, highlighting quality and modernity, a significantly greater than in the past. The Fish Authority may surely be used more mindfully to combat long-term issues rather than be dissipated to the extent that it is today.

2. More government encouragement to encourage use of indigenous new species such as blue whiting.

3. Greater use of intervention process to ensure that scarce fish are not used for human consumption, stabilising quantities and encouraging storage frozen form.

In conclusion, I emphasise that Birds Eya continue to work with the good of the British fish industry and plans a further expansion of its fish market over the next decade.

In the next few months shall be introducing the fish packs, either nationally or regionally, for products based on cod, haddock, mackerel, plaice, presenting one of our important ranges of fish.

Even more important, undertake to continue supporting fish products. Birds Eya will spend over £10m. advertising and promoting support of fish over the next decade.

It has been suggested that Britain needs a fish agency. In our view we would better advised to work together making full use of the existing bodies and their desire to see the fishing industry prosper. These can be achieved much the better.

The issues continue to be industry today are in a context of a national strategy. Indeed, the price of cod is often a guide to the price of fish in general. The price of fish is often a guide to the price of fish in general.

Since the late 1960s the Market Development Unit of the White Fish Authority has devoted a substantial proportion of its efforts in attempting to increase the sales of fish to the mass-catering market. Even at the start of this programme the species of fish being served, namely cod, haddock and plaice, were regarded as being expensive.

You can't kid the kids!

THE biggest slice of the catering market—around six million meals a day—is with the educational and health catering services.

A report issued in November 1976 by the Journal Education showed that, in terms of meals served, the schools market has been growing steadily at about five per cent per annum for the past five years and now exceeds 1,100 million meals a year.

In addition, the proportion of pupils receiving school meals increased from 58 to 64 per cent in the 10 years to 1973, with the expenditure by schools for each meal rising from 5.7p in 1970 to 9.2p in 1975.

Big bill

The cost of providing food for patients and staff in the 2,500 hospitals in England and Wales, and the 500 hospitals in Scotland, was estimated last year at some £85m. This compares with the £13m food bill for the Civil Service and the £40m. bill for the armed forces.

There are, of course, financial constraints placed upon the catering services. In the education field, materials for a single meal, prepared to strict nutritional standards, must cost less than 10p.

However, with a total annual turnover on meals for schools and hospitals of over £200m, there is an extremely large market for fish merchants willing to accept the challenges of meeting required purchasing standards. And there are presently signs that the larger fish processing companies are responding.

In the past—mainly because of the misguided emphasis by some purchasing authorities in accepting the lowest tender—the institutional sector was regarded as being the bottom of the market. It was underestimating, therefore, that in order to do business at these low prices in a fluctuating cost market, merchants provided fish of minimum quality. Fortunately the situation is changing.

Fish suppliers to the local authorities are adopting a more responsible attitude, and purchasing officers are becoming more aware that buying low quality fish is a false economy. More savings are left unearned.

Colley

Since the late 1960s the Market Development Unit of the White Fish Authority has devoted a substantial proportion of its efforts in attempting to increase the sales of fish to the mass-catering market. Even at the start of this programme the species of fish being served, namely cod, haddock and plaice, were regarded as being expensive.

So, one of the first tasks undertaken by the WFA was to determine the relative acceptabilities of a number of familiar species of fish. Species investigated were plaice (or colley), which suffered a poor image due to the colour of the uncooked red fish and a then unpopular variety, South Atlantic sea bream, and redfish were because they were readily available and

relatively cheaper than cod, while South Atlantic hake fillets gave a very attractive alternative to cod and haddock.

The results of this trial, and also those of a further trial comparing the acceptability of certain fish and meat dishes, gave fish the edge. They convincingly demonstrated that fish of good quality and irrespective of species, providing it is well cooked and presented, provides more satisfaction to the consumer and more nourishment than the majority of meat dishes.

It was the quality of the fish, and not the species served, which affected the acceptability of the meal. When below a certain level in quality (or freshness) the acceptability of the four species tested (including cod as a control) fell quite dramatically.

Staff from the Humber Laboratory of the Torry Research Station (TRS) conducted a comprehensive survey of the quality of fish served in hospitals and schools throughout the country. This indicated that the majority of hospitals and schools visited were receiving fish well below this critical standard of quality.

Rejected

In a number of instances, the quality as delivered was so bad that meals were being rejected. This led the WFA to launch a campaign to upgrade the quality of fish served in schools and hospitals—a campaign still being maintained.

As first priority it was decided that purchasing officers required help to cope with the relatively complicated practice of inviting tenders for fish. Therefore, in conjunction with the TRS and the Herring Industry Board and after consultation with the trade, guideline purchase specifications were drawn up.

These specifications give acceptable quality standards based on the Torry Taste Panel Scoring System and give tolerances for fillet or portion size, presence of skin and colour, membranes, and other imperfections.

These specifications, produced in booklet form to cover the normal ordering categories, have been distributed by the WFA to every educational and health authority in the UK. The WFA staff concerned with this operation were called Advisory / Inspection officers and were fully-trained food technologists.

The team, equipped with a mobile laboratory, toured most of the country to check the quality of fish ordered, using the new purchase specifications, against the quality of the fish delivered. After each assessment a

short report was issued both to the purchasing authority and to the fish supplier. Any inconsistency was then generally resolved between the parties, as the WFA's function was to provide an independent opinion, not to act as adjudicator.

With the introduction in

Turn to page 16.

Nobbing Machines

are called
BAADER
in the
future

for example



BAADER 465

After many years of experience and intensive research BAADER has developed a new system for nobbing. Fish of different quality are exactly processed with a high output up to 350 fish/min.

The BAADER head length control well proven at BAADER filleting machines guarantees a meat saving heading cut. Saw-styled eelsaws separate head and back bone, but not the guts. The conical rollers of the nobbing tools smoothly grasp the gills without a jerk or tearing in spite of high speed. The machine is of course equipped with a tail fin cutter and with a device cutting the fish to length. The BAADER 465 can easily be operated and maintained. BAADER nobbing machines are again another step towards the future.



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FISH HANDLING, processing and marketing

CATCH '77

FISH HANDLING was a big feature at the Catch '77 fishing exhibition staged in Hull last month. The growing awareness of treating the fish as a valuable product is reflected in this look at some of the equipment on display.

Gordian

GORDIAN Strapping Ltd. really hit the jackpot at its first-ever fisheries exhibition with its automatic extruded polypropylene strapping machines.

Inside 48 hours sales worth over £88,000 had been made — largely to Hull freezer treller owners. By the end of Catch '77 sales had exceeded six figures with 28 machines sold.

A spokesman for the company, which hanks on fishing and its ancillary trades for only about 15 per cent of its strapping business, said the firm had already booked a much larger stand for Catch '78 at Aberdeen.

Gordian is a member of a large engineering division with its head office at Feltham, Middlesex.

For many years the company manufactured and sold Gordian 'Q' model semi-automatic wiring machines.

It has met fish merchants and treller owners' requirements on a nationwide basis, for over 30 years, mostly with semi-automatic wire tying machines.

Gordian established worldwide associations with leading strapping tool manufacturers and made a major break-through in recent years with its comprehensive strapping equipment using extruded polypropylene of various widths.

The company manufactures its own strapping and prints the customers' name on it.

Before Catch '77 Gordian's polypropylene strapping machines were being used by major fish processing factories.

The OL7 horizontal strapping machine, with its advantages of hygiene, speed and safety, proved highly successful in fish processing factories.

Single installations of the OL7 model, where the strapping is sealed by a heat process horizontally beneath the carton, had been made on the Hull-based freezer trellers *Pick, Dane, Kurd, Arab* and *Coriolanus* for certain packaging of frozen filleted fish.

Also, the many applications of this machine

led late last year to double installations being made on Hemling's *St. Benedict*, Boyd's *Arctic Galliard* and Boston's *Princess Anne* just before they joined in the south-west meckel season.

This year Gordian has introduced its vertical side-seal OLM model.

Of stainless steel non-rusting construction, it is designed for use at speed in wet sea-going conditions. The automatic machine has a capacity for strapping over 3,000 cartons (8,000 streps) per day.

As Hull freezer treller owners are looking to next winter's meckel season off Corowell, twin installation orders for the OLM model came from J. Marr & Son for *Northello* and *Cordella*, and for Boyd Line's *Arctic Buccaneer*, *Arctic Raider* and *Arctic Freebooter*.

The Boston Group has placed orders for two installations of the OLM model on *Sir Fred Porke*, as did Thomas Hemling & Co. for *St. Jason*.

It is also understood that BUT placed an order for a pair of OLMs for an unnamed vessel, possibly *Housa* currently fitting out in Grimsby for charter to North America, while the same company is interested in Gordian strapping for securing block frozen whole white fish.

stackability. The board is resistant on both sides to oil, water and grease.

Secor fish boxes are available with lids of the same material, or of a polythene-coated solid fibreboard.

Boxes and lids in both Secor and solid PE fibreboard can be supplied in flat, crensed and slotted sheets ready for stitching by the customer. They are available in either white or brown board, also printed to customers' own design.

A range of sizes can be supplied and, also, boxes can be produced to customer's individual requirements.

Also on show was the Secor Pel-Box, a palletised bulk container ideal for open air storage. It has been specially designed to carry consignments of pre-packed fish to super and hypermarkets.

Allibert

ALLIBERT — a regular exhibitor at UK fishing shows — is Europe's largest manufacturer of specialist plastic containers for the fish catching, handling and processing industries.

Some 1.5m. Allibert containers are now in use around the world.

The firm's 11100 container, some 23,000 of which are in use on Grimsby fish dock as a replacement for the aluminium kit, is on trials in Lowestoft. The users are very pleased so far and are said to be interested in buying more.

Designed in conjunction with Grimsby Exchange Box

Tillotson

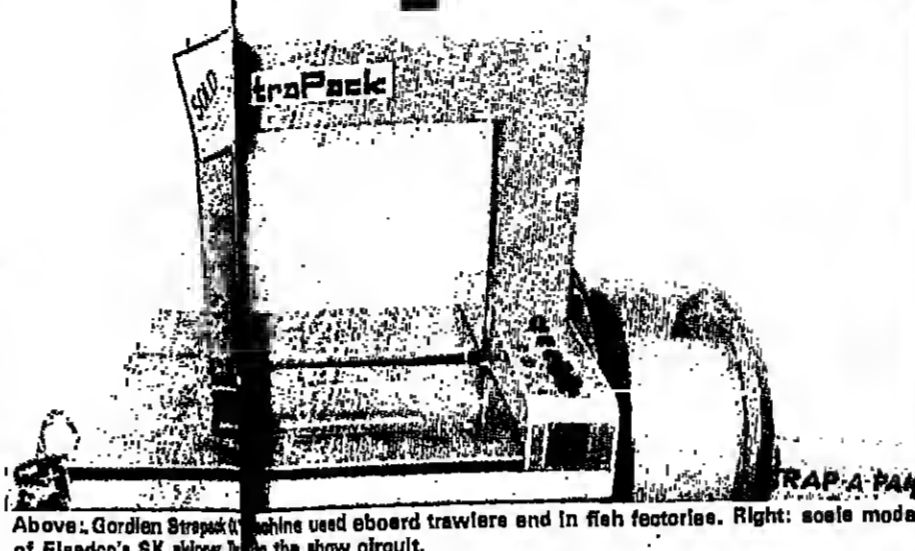
DRY AND wet fish boxes were shown on the stand of the Manchester firm of Tillotson Containers Ltd.

The boxes are made of solid PE fibreboard and Secor wax-impregnated corrugated fibreboard.

Wet fish boxes using Secor are a recent development by Tillotson and a firm's spokesman said the exhibition was an excellent opportunity to introduce them. Many serious enquiries had made participation in the show well worthwhile.

Secor is said to be ideal both for freezer storage and for good quality temporary open air storage. It is a corrugated board into which a food grade wax has been injected during manufacture to give increased strength and

One processing line



Above: Gordian Strapping machine used aboard trawlers and in fish factories. Right: secor model of Fisadco's SK skinner.

Pool, the container's capacity for ten stone of fish is of particular note.

It incorporates a built-in reinforcing hand to assist in carrying by hand or by truck without the need for a crane.

Ribbed identification marks on the upper two firm total facilities handling night-time landings and the Aberdeen Holdings box is designed to stack in known world full and nest when empty.

Weight is only 8.5kg. The firm's 11100 container, some 23,000 of which are in use on Grimsby fish dock as a replacement for the aluminium kit, is on trials in Lowestoft.

The users are very pleased so far and are said to be interested in buying more.

Designed in conjunction with Grimsby Exchange Box

giving extra rigidity.

Left: range of boxes on the Tillotson Containers stand. The firm's Secor wax-impregnated fish boxes can have lids.

Right: Hull's fish merchants — hard hit by the decline in distant water fishing — showed a wide range of products.

The Hull Fish Merchants' Association Limited

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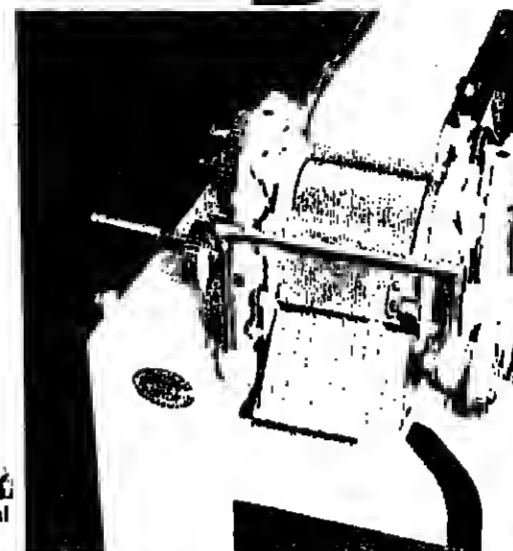
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FISH HANDLING, processing and marketing



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Afos

THE LONG-ESTABLISHED smoking specialists Afos Ltd. whose Catch '77 week to announce a reciprocal trading deal with Areco-KM.

This firm is a member of the massive Swedish Match Group of companies and the trading exchange is an important move for Afos, which is based on Humberside.

The Afos range of fish-curing, drying and smoking equipment will now be available in Scandinavia, as well as behind the Iron Curtain in countries like Russia and Poland.

Cured fish is immensely popular there and Afos products will get a boost from Areco acting as its distributor. In return, Afos has considerably strengthened its standing in England as agents for the huge Areco range. This includes fully or semi-automatic fish processing

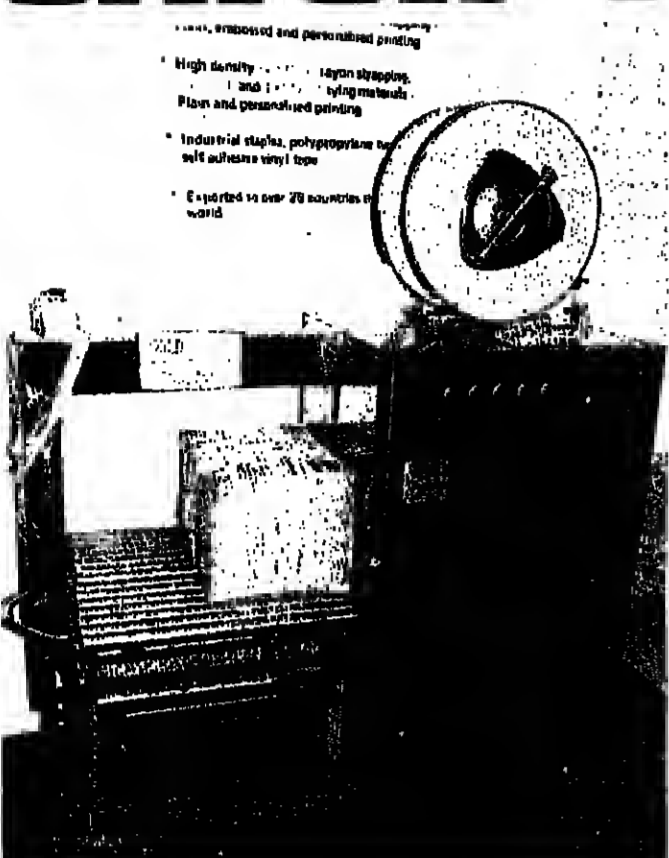
machines, from single ebon and eee-going units to complete lines for all types of fish.

At Catch '77 it displayed a stainless steel version of the Afos Mini Smoking Kiln, suitable for hot or cold fish curing, and it created considerable interest.

The Afos automatic drier, guaranteed to dry fish in the fastest possible time without spoiling through increased temperatures, owes much to work between Afos and the Torry Research Station.

For short and long term fish drying — and even defrosting — Afos Ltd. is maintaining its well merited position ahead of its rivals.

The swap deal with Areco will do much to consolidate this position and, with the vast range of Swedish processing equipment now available through Afos, it is of particular significance that there are machines suitable for processing much smaller fish like meckels, hake, whiting, from sorting, nibbing and filleting to tidbit cutting and pecking.



This side-sealing Gordian strapping machine, type OLM, will be wrapping up Cornish meckel aboard Hull freezer trellers this winter.

Ashton

A BRAND-NEW product on the Ashton Containers stand was the extra-strong ACLaim wax-saturated corrugated board fish case with Ashton 'Viking' solid lid.

Ashton Containers, part of the giant Mardon Packaging Group of Bristol, was exhibiting at Hull for the first time. However, its hard-wearing 'Viking' polycoated boxes and trays are firmly established favourites in the merchandising trade and are sold through Norman Nicholson Box Co. Ltd. of Hull, James Cordner & Son Ltd., Aberdeen, and Falconer & Sons Ltd., Grimsby.

The new product is the result of almost two years' research and development to produce a substitute case for the traditional wooden box. It had to have the same rigid and hard-wearing properties.

The lightweight and water-resistant paraffin wax

saturated case, marketed under the ACLaim label, has exceeded expectations and is suitable for boxes in excess of four-stones.

The ACLaim box end 'Viking' board lid combination was evaluated by despatching 25 kilos of ice-packed monkfish by refrigerated road tanker from Aberdeen to a Mediterranean port. The exercise was so successful that it is expected to build up into a 500-case run.

Costwise, ACLaim boxes are said to compete very favourably with wood and plastic.

The boxes, of completely saturated corrugated board and starch adhesive, conform with the current Food and Drug Acts and, apart from their suitability as fish boxes, have diverse applications.

They can be used as lobster and prawn trays, for deep-freeze packaging, canned goods containers and other heavy-duty work where exceptional strength and water resistance is required. They stack strongly and are easily stored.

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PROMAC COLD FACTS

MELTING ICE COSTS MONEY

USING BULK ICE TO CHILL YOUR FISH HOLD IS EXPENSIVE — AVERAGE FIGURES FOR AN 86L TRAWLER SHOW IT LOSES 6 TONS PER WEEK IN THE SUMMER AND 3 TONS IN THE WINTER — AT £6 PER TON THAT'S ABOUT £1300 IN A YEAR — AT TODAY'S PRICES, BUT PRICES ARE RISING — £1500 IN 1976 £1750 IN 1977 £2000 IN 1978 IF YOU BUY A PROMAC REFRIGERATION PLANT NOW IT WILL HAVE PAID FOR ITSELF BY THEN. WITH A REFRIGERATED FISH HOLD YOU ONLY NEED ICE FOR THE FISH — PROMAC CAN CUT YOUR ICE BILL DRAMATICALLY — AND YOU HAVE MORE ROOM FOR BOXES FOR YOUR TOP QUALITY FISH.

THE ICE QUEUE COSTS MONEY

WAITING FOR ICE IS EXPENSIVE — IT WASTES FISHING TIME, TAKING ICE ABOARD DAYS BEFORE YOU SAIL IS EXPENSIVE — IT MELTS. A PROMAC BOARD FLAKE ICE MACHINE SOLVES THE PROBLEMS — IT MAKES YOU INDEPENDENT, IT MAKES ALL THE ICE YOU WANT — WHEN YOU WANT IT THE ICE IS FRESH — SUPERCOOLED — AND IT LOOKS GOOD IN YOUR BOXES ON THE FISH MARKET — YOUR FISH ARE FRESH. A PROMAC FLAKE ICE MACHINE PAYS FOR ITSELF QUICKLY. ROBUST, RELIABLE AND COMPACT THE RANGE CATER FOR MOST TRAWLERS — DRIVES ARE ELECTRIC OR HYDRAULIC.

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2nd-5th October 1977 11 am-6 pm

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FFFF77

FISH HANDLING, processing and marketing

From page 15

block filleting and finning machines which are in wide use in Shetland and at Scottish ports, including Aberdeen.

Block fillets of cod, haddock and whiting are a Scottish speciality and Fisadco's Twin skin block ekinning machine can produce fillets up to 13in. in length at a rate of some 40 to 50 a minute.

Larger skinning units include the Fisadco 44 machine which can handle cod, haddock, coley, bream and ling. It has produced fillets up to 6ft in length.

The company claims to offer an excellent after sales service and, in addition, it manufactures conveying systems and other specialist equipment to customer requirements.

On the second day of the show a company spokesman said that reaction had been very encouraging.

Promac

MORE and more fishermen are now fitting Promac fishroom refrigeration and ice-making equipment to their vessels to maintain fish quality.

One of the most recent

CATCH '77

hosts to be fitted with a Promac ayetem, through agents Morep Ltd. of Luddenden, near Halifax, is the 85ft. Newlyn-based trawler-line Dew-Genen-Ny.

She is currently able to keep her catch in excellent condition as fresh ice is available throughout the trip, and her fishroom can be maintained at one deg. C.

Skipper Michael Hoaking remarked: "The more fish I have the more ice I seem to have."

The equipment, fitted at Bideford Shipyard earlier this year, is the model AC SK51/2000 plant which produces two tons of ice every 24 hours.

Similar Promac fishroom refrigeration and flake ice machines are fitted to the two new 87ft. trawlers Green Field and Green Isle II, built by Herd and Mackenzie of Buckie for the Chemers family of Northern Ireland.

Green Field has recently been white fish trawling from Peterhead, while Green Isle

II is about to sail on her maiden trip.

During the show negotiations were in hand to supply similar equipment to two leading Scottish skipper-owners and a typical ice maker and refrigeration unit was displayed.

The need to land herring and mackerel in really top condition has led more UK skippers to fit their boats with refrigerated seawater systems. A Promac RSW system is currently being fitted to the Peterhead herring trawler Accord in Holland, while a similar installation will shortly go aboard the Shetland purse seiner Azalea.

The RSW system is designed to chill the tanks rapidly before fishing starts, and then maintain the temperature until the catch is landed.

Baader

FOUR German-made Baader fish processing machines were being demonstrated at the show.

The Baader 465 H nolling machine for larger herring and mackerel caught the eye and was despatched to a fish factory in Cornwall immediately the exhibition closed.

Basically a modified version of the popular 465 machine, it is equipped with larger trays and the tail and length cutting devices are not included.

The machine is the result of many years of experience with different systems for the evisceration of small shoal fish.

A simple device automatically positions each fish for a correct head cut according to size. This guarantees a good yield and the head cut is made without severing the throat.

This throat is guided between two tapered rollers for pulling the guts out of the fish.

Made of corrosion-resistant material, the Baader 465 H is of very sturdy construction for long service.

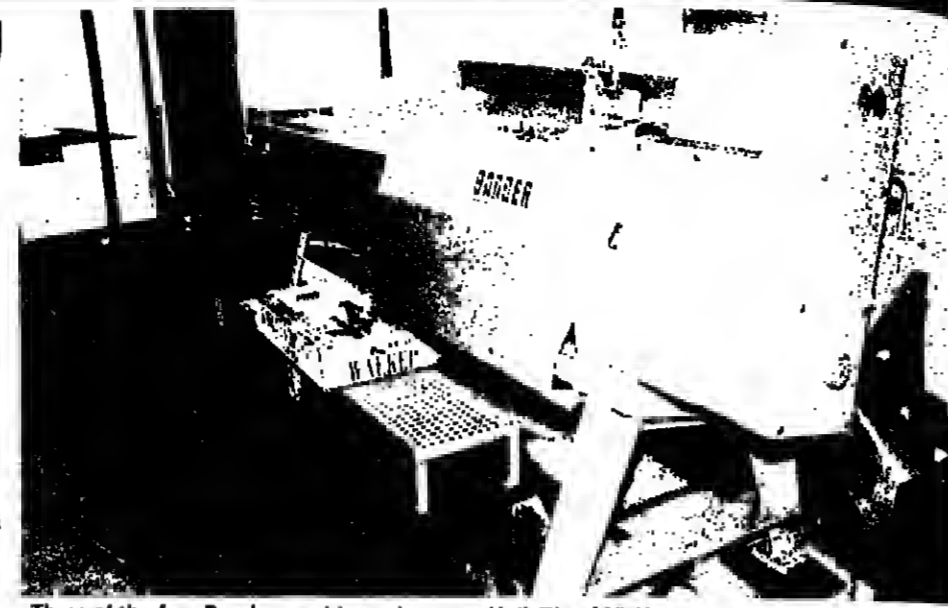
The H model illustrates the adaptability of the Baader range of fish processing machines, which are constantly being updated and redesigned.

Baader's was one of the busiest stands at Hull and the exhibition was only a few hours old when a Baader 51 skinning machine was sold. There was also considerable interest in the new 121 gutting machine for handling smaller fish, especially of blue whiting size.

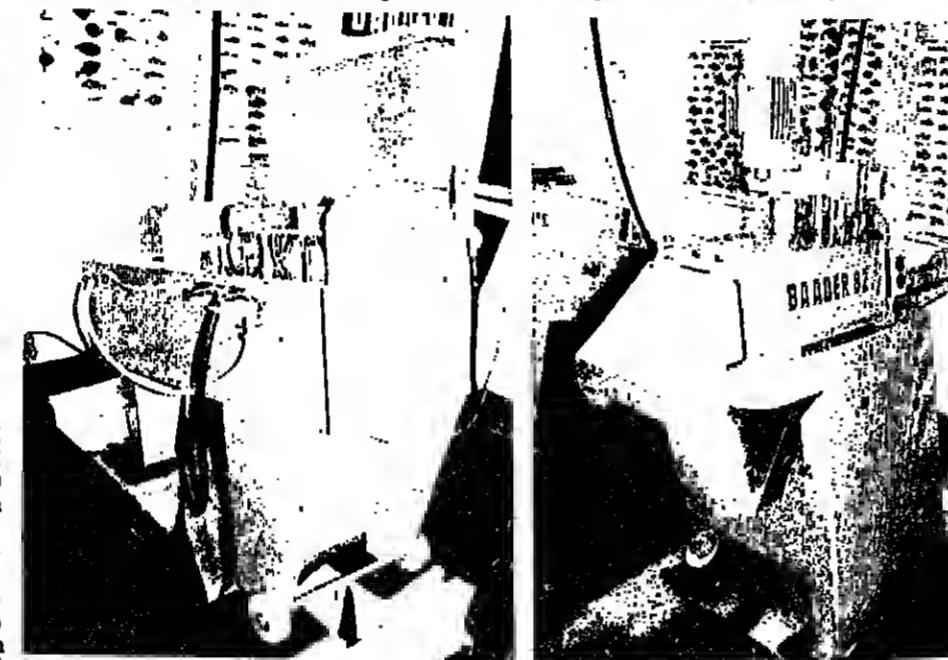
This latest development is still undergoing sea trials and was not displayed at Hull, although full production is expected to start shortly.

There was also a definite emphasis on smaller fish with the Baader 158 gutting machine which handles mackerel well. Basically a redesigned Baader 159, the machine is capable of processing fish in the 26 to 45 cm. range. This machine is simple and clean in construction and it leaves the gutted fish with the head on.

Also displayed was the Baader 82 bone cutter and the Baader 51 skinning machine, capable of skinning fillets of any size from a wide variety of fish by pulling the skin off instead of cutting.



Three of the four Baader machines shown at Hull. The 465-H is the nolling unit sold to a Cornish fish factory. Below left is a 168 gutter and below right an 82 bone cutter.



You can't kid the kids!

From page 13

1973 of one-day catering seminars in hospital regions, a greater degree of utilisation of both the purchase specifications and of the less familiar species was achieved.

The financial cut-backs of the past two years have, unfortunately, necessitated the suspension of this free service for routine visits. Advice by telephone is still available (03727-28885) and, in extreme instances, every effort is made to arrange a special visit.

As a result of several enquiries from area purchasing officers who regret the withdrawal of the visiting service, the possibility of re-establishing it on a recovery-cost basis is now under consideration.

The WFA, as part of its publicity campaign, is continuing with the programme of catering seminars and

cooking demonstrations, the most recent being to the Wiltshire and Northern Ireland Education Services in May 1977.

As a larger number of fish processors are paying more attention to this sector of the catering market, and as the education and health authorities are becoming more concerned about turning to cheaper alternatives, the WFA's advice is being increasingly sought.

Mackerel
Species such as soithe, whiting, South Atlantic hake, flounders, megrim, etc., are now much more in evidence and, particularly in south west England, mackerel is

featuring more prominently on the menu.

In the past three or four years there has been a steady improvement in the quality of fish supplied to school and hospital authorities and, also, a better awareness of the importance of providing proper facilities for looking after good quality fish after delivery.

It remains the policy of the WFA to help maintain this improvement and to persevere with trials into the acceptance of alternative species such as mackerel and blue whiting.

The schoolgirl of today becomes the housewife of tomorrow. Hence, they are a major influence on the eating habits of the next generation.

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July 8, 1977

FISH HANDLING, processing and marketing

TOM MULLENDER DIES

Barrow boy to fish trade leader

TOM MULLENDER, the man who helped organise Fleetwood's road fish delivery service following Beeching's rail axe in the early 1960s, has died in hospital aged 69.

Mr. Mullender, whose funeral was held last week, had been ill for more than four years.

He was born at Lowestoft and, on leaving school at 14, joined the Hawsett company's merchanting concern at the port as a harrow boy. Soon, there was rapid promotion within the company.

In 1927 he worked for the firm at Fleetwood, where he soon became branch manager of marketing operations at the port. It was the beginning of years of outstanding service to Fleetwood's fish trade, with his remarkable organising abilities being used to promote its aims.

He became president of Fleetwood Fish Merchants' Association and, also, chairman of Fleetwood Fish Merchants' Mutual Association. He also became chairman of Fleetwood Football Club and Fleetwood Bowling Club.

His influence was felt far beyond Fleetwood. As national president of the Port Wholesalers Fish Merchants' Association, he travelled widely and played a leading role in promoting the fish trade.

It was, however, the Beeching axe on the railways which led to his greatest

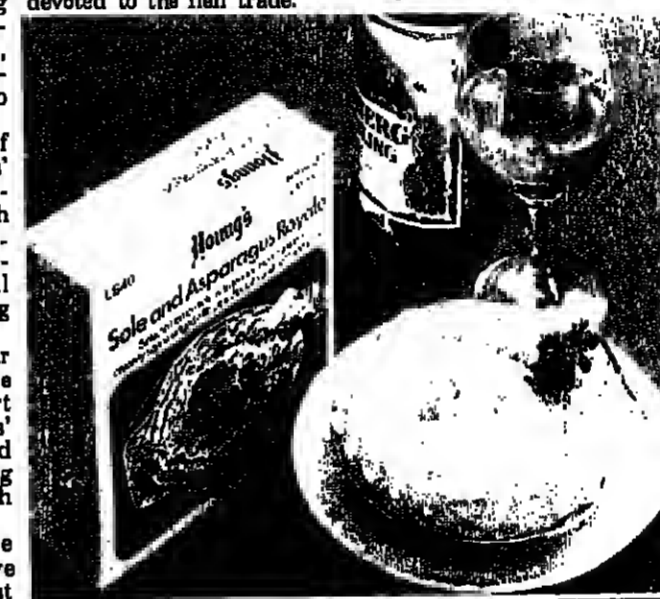
achievement, when Fleetwood was faced with an immense crisis.

Tom Mullender, and others, organised a road transport system which brought the port through and it developed into a highly efficient organisation which continues to deliver Fleetwood fish throughout the country.

In 1971 Tom Mullender was awarded the OBE. When he went to Buckingham Palace with his wife, Jennie, to receive the award it was the climax of a remarkable career devoted to the fish trade.



Tom Mullender OBE — in the trade since the age of 14.



Sole entree

NOW BEING nationally distributed is this new seafood entree from Young's which combines lemon sole and asparagus in a creamy sauce. The individual 200g (7oz) serving is packed in a foil shell and bordered with piped potato before freezing. If defrosted prior to reheating, the oven time is 25 minutes. If taken straight from the freezer, the time should be extended to 40 minutes. Packed in fives, the price is 45p each to the caterer.

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To many people in the market it is only curiosity which causes them to enquire about these unusual fish — and a rather shallow curiosity at that. With few honourable exceptions, they seem almost actively to resist the acquisition of knowledge outside their own narrow specialisation. But, even if they do not know a wrasse from a dragonet, or a eel from a trammel, they do know how to sell fish. And that's what it is all about.

Once you are confident that you have the raw material and the expertise, what you then need is the market. You may consider that you should have looked at this before advancing so far in your thinking.

This is a chicken and egg situation but since you are already involved in the



Cleann Deral — from the Tyrrell yard.

A small stern locker houses the steering gear and the steel 60-gallon fuel tank. Arrester



Bemrose and Son, looking immaculate. She was joined by the big stern trawler from Hull, *Princess Anne*, with Peter Craven in command. Aboard *Princess Anne*, Sir Basil Perkes, chairman of the



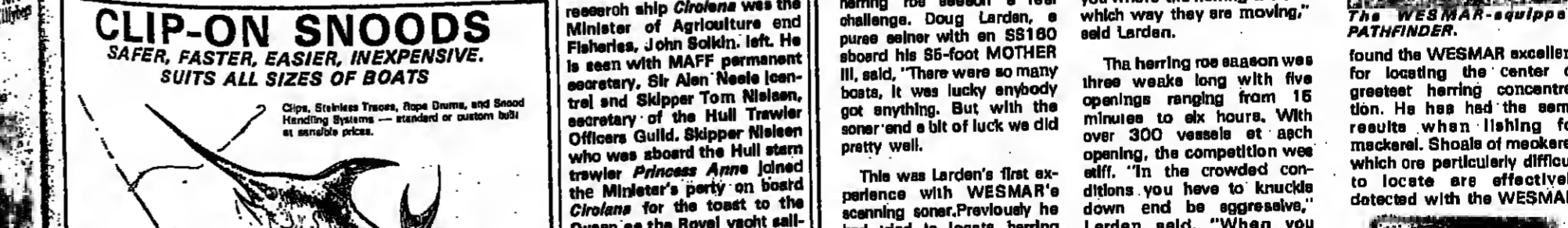
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A BIT OF LUCK AND A SONAR BRING SUCCESS

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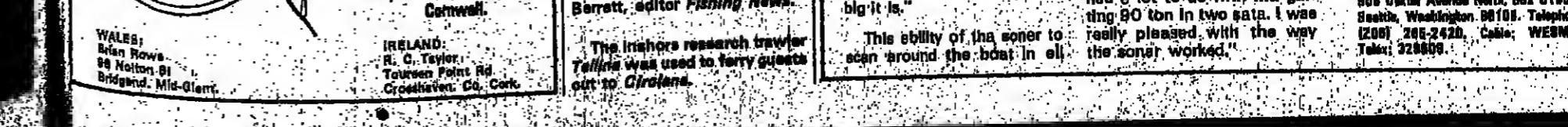
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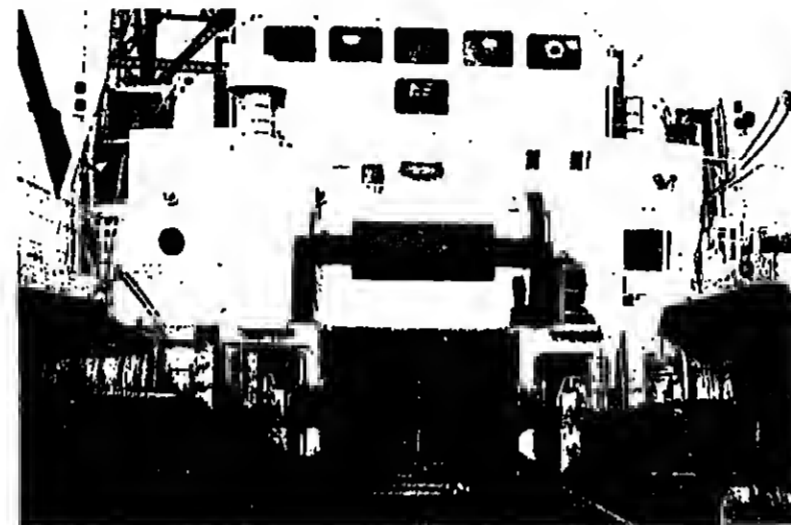
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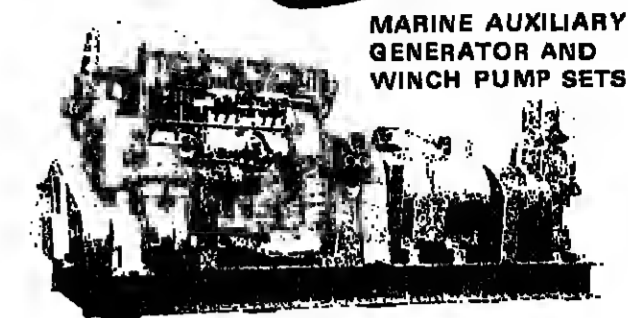
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Apply W. Stevenson & Sons, Newlyn, Penzance, Cwll. Telephone: Penzance 2555.

FOR SALE BY PRIVATE BARGAIN

M.B. "CONSTANT STAR" PD 172

Built of steel at Grimsby in 1962. G.L. 100 ft. x 10.5 ft. x 22.5 ft.

The vessel was re-engined, extensively modernised and shot blasted in 1975. Alpha 900 hp, engine was fitted, also new auxiliary 55 hp, dynamo, etc. 20" A.F. Power block, low pressure Norwich Trawl Winch. Equipment owned: Elex Echometer and Fishups, Soller 555 R.T. and V.H.F. Decca 8M 814 and 080 Radar, Robertson Autopilot. Equipment hired: Decca Navigator and Petter, Soller R.T. and V.H.F. The vessel is fully equipped for pair and bottom trawl fishing and is operating from Peterhead where she may be inspected by arrangement with Caly Fisheries Group Ltd. 11 Harbour Street, Peterhead — Telephone No. Peterhead 2414, from whom further particulars may be had and with whom offers may be lodged.

NEW steel passenger launch with hull line certificate, fully equipped. All enquiries to Box No. 610.

ANGLING boat 25ft. x 8ft. 6in., 55hp, engine, 11,500 or larger vessel. Telephone: 01-353 6961.

FOR sale 25ft. x 8ft. 6in. red pine on oak, built 1955, 20hp Kelvin diesel, 10hp Thornycroft petrol, both completely overhauled. VHF, Seacraft, echo sounder, saw batteries. Telephone: 01-353 6961.

M.F.V. "St. Peter" wooden 50ft. 1906, 120hp, Kelvin recently overhauled, Kelvin Hughes sounder, Baller wireless, Boat's property Mk.21 Decca, 4 fish, 2 prawn nets, Pair trawl doors, Fishing in Skerries. Tel: Dublin 481-556.

TRAWLER "Golden Hind" 08.221. Overall length 68ft. breadth 18ft. tonnage 24.53, 132 Kelvin K56, newly overhauled 1977. Decca mtd. winch. Boat's property Soller and V.H.F. Decca 8M 814 and 080 Radar, Robertson Autopilot. Equipment hired: Decca Navigator and Petter, Soller R.T. and V.H.F. The vessel is fully equipped for pair and bottom trawl fishing and is operating from Peterhead where she may be inspected by arrangement with Caly Fisheries Group Ltd. 11 Harbour Street, Peterhead — Telephone No. Peterhead 2414, from whom further particulars may be had and with whom offers may be lodged.

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HIGHLANDS AND ISLANDS DEVELOPMENT BOARD

MFV "SILVER CHORD" LK179

Built in 1950 by J & G Forbes at Sandhaven. Overall length 70.00', Registered length 65.30', Breadth 19.78', Depth 8.00', GRT 48.54'.

Powered by Gardner 813 — 162HP and fitted with a mechanical sline net winch. In 1972 the vessel was fitted with a new wheelhouse, steel poop deck, mizzen mast and derrick and re-wired. There is no electronic equipment on board. The vessel is lying at Lerwick and will be sold by private bargain in the condition "as is where is" at the time of sale. Arrangements to view can be made with the Highlands and Islands Development Board, Bank Lane, Lerwick, telephone number Lerwick 3177. All offers for the vessel must be made in writing to the Solicitor to the Highlands and Islands Development Board, Bridge House, 27 Bank Street, Inverness and should be in our hands by 1 August 1977. The above particulars are given in good faith but no responsibility can be accepted for their accuracy. Purchasers must make their own enquiries.

"KEYHAVEN GIRL" 8U 221

33ft. x 11ft. 6in. x 3ft. 6in. Lochin built Cymus Marine March 1975 tonnage 24.53, engine 142hp, 120hp, 14 knots, Seacraft VHF, Seacraft sounder, EMI radar, Kent screen, Spencer Carter 1 ton hydraulic hoist, rigging, 25,000 cns, towing, licensed 2 passengers, £12,000 o.n.o., telephone New Milton 912861 (Hants) after 8 p.m.

55ft. Steel M.F.V. 240hp presently side trawling, Scallop gear available if required. Telephone: Fleetwood 3714 or 4861.

IP28 (Blue) forward wheelhouse, S.M.C. 1.5 engine, p.m. 3:1 reduction, mast and derrick, echo sounder, compass, Seacraft R/T, cockpit all in immaculate condition (100% £3,800. Telephone: (0603) 743393 evenings 6.00 to 8.00 p.m.

31ft. Fibre, Lister F14 27hp, new engine, electric die, after 12,000. Telephone: Winterton 500 Suffolk.

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24ft. x 8ft. 6in. clinker built double ended, liner clonal, 21 knots, 180hp, 120hp, 14 knots, Seacraft VHF, Seacraft sounder, EMI radar, Kent screen, Spencer Carter 1 ton hydraulic hoist, rigging, 25,000 cns, towing, licensed 2 passengers, £12,000 o.n.o., telephone New Milton 912861 (Hants) after 8 p.m.

VEISATILITY 25ft. Mk2, forward wheelhouse, two borths, 62hp, VHF, sounder, radar, hydraulic winch, Telephone: Polk: 70851 after 6pm.

VEISATILITY stern trawler, forward wheelhouse, VHF sounder, Ford 77hp, winch, built 1974, telephone, evening, Southend 820028.

REGISTERED MFV "Missy" 40ft. wheelhouse, look finished 1975, first launched June 1977, Mercedes OM 836, 42hp, anchor winch, fenders and 8 new labor pots included, lying Poole, 25,000, telephone Bournemouth 46884.

COX "Fisherman" 22ft. x 8ft., built May 1976, 23hp Yanmar diesel, aft wheelhouse, 2 berth, facials, mizzen sail, echo sounder, compass, electric capstan, G.R.P., dinghy, 40 plus outboard, two trawl nets, all gear, lying Orford, Suffolk, telephone Ladbroke (0728) 830648 day.

VEISATILITY stern trawler, forward wheelhouse, VHF sounder, Ford 77hp, winch, built 1974, telephone, evening, Southend 820028.

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"CLEOPATRA" 25ft.

Fisherman, two berth, Perkins 40 720hp engine, 4 1/2 inch shaft, 20hp, 120hp, 14 knots, Seacraft VHF, Seacraft sounder, EMI radar, Kent screen, Spencer Carter 1 ton hydraulic hoist, rigging, 25,000 cns, towing, licensed 2 passengers, £12,000 o.n.o., telephone New Milton 912861 (Hants) after 8 p.m.

20ft. clinker boat, ideal for fishing, 20hp, 120hp, 14 knots, Seacraft VHF, Seacraft sounder, EMI radar, Kent screen, Spencer Carter 1 ton hydraulic hoist, rigging, 25,000 cns, towing, licensed 2 passengers, £12,000 o.n.o., telephone New Milton 912861 (Hants) after 8 p.m.

SCOTTISH MFV, 40ft. built 1974, 120hp, 14 knots, Seacraft VHF, Seacraft sounder, EMI radar, Kent screen, Spencer Carter 1 ton hydraulic hoist, rigging, 25,000 cns, towing, licensed 2 passengers, £12,000 o.n.o., telephone New Milton 912861 (Hants) after 8 p.m.

ANGLO-CREEL boat, 20ft. clinker, 20hp, 120hp, 14 knots, Seacraft VHF, Seacraft sounder, EMI radar, Kent screen, Spencer Carter 1 ton hydraulic hoist, rigging, 25,000 cns, towing, licensed 2 passengers, £12,000 o.n.o., telephone New Milton 912861 (Hants) after 8 p.m.

COBLE "Miss Emily" 24ft. x 8ft. 6in. built 1973, Perkins 40 720hp engine, 4 1/2 inch shaft, 20hp, 120hp, 14 knots, Seacraft VHF, Seacraft sounder, EMI radar, Kent screen, Spencer Carter 1 ton hydraulic hoist, rigging, 25,000 cns, towing, licensed 2 passengers, £12,000 o.n.o., telephone New Milton 912861 (Hants) after 8 p.m.

IP23 and Mitchell 23 for sale, both fully rigged for trawling, complete with all gear and both in excellent condition. Telephone: 0946 6286.

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Telephone: Plymouth (0752) 28486

Manufacturers of scollop dredges, vee doors, blocks rollers etc.

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3 inch round 15p

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SCOTTISH MFV, 40ft. built 1974, 120hp, 14 knots, Seacraft VHF, Seacraft sounder, EMI radar, Kent screen, Spencer Carter 1 ton hydraulic hoist, rigging, 25,000 cns, towing, licensed 2 passengers, £12,000 o.n.o., telephone New Milton 912861 (Hants) after 8 p.m.

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1mm Egg shape 9p each Minimum quantity 100

4 inch Egg shape 15p each Plus £1.50 P&P per 100

5 inch Egg shape 22p each plus V.A.T. @ 8%

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ROBBIN gear for sale, suit 230-320hp Mystic single beam trawl never used, Mystic single beam, Mystic twin beam, Lewis good condition, 80ft. of bobbins and rubber line, 2 x 800 length 1/4 in. drag chain, good condition, new lower wing for Mystic trawl 2800 cns. Box No. 628.

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32 4in. to 3ft. 2in. x 60ft. 242
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£2.50 per set extra for lead line, plus VAT and carr.

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SOUTHERN Nets Ltd., Rye, Sussex, make all types of trawl in many sizes for bottom fishing including single wing, or double wing, two-beam or trawl, standard or high lift, four-arm standard or high lift, combination trawls. Available now on special offer 10-ton plastic trawls from £120. Send 3p for 1977 catalogue or telephone Southern Nets Ltd., Lower Cross, Udimore, Rye, Sussex. Old Grimsby, Stroud Quay, Rye, Sussex. Telephone: Rye 3811 or 2155, (Rye 019 73).

55ft. MFV, Scottish built by 18ft. beam, 114 hp Gardner power block, radar, trawl winch, radio and Decca all ship's property. Telephone: Woolvarstone 545 Mr. Ipswich.

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